

**RESPONSE TO REQUEST FOR EXPRESSION
OF INTEREST**

RFQ#: DNRB11058

ARCHITECTURAL/ENGINEERING SERVICES

For

**Improvements and Repairs to Swimming
Pools, Swimming Beaches, and Related
Facilities**

At

SYSTEM WIDE LOCATIONS

By



1 March 2011

RECEIVED

2011 MAR -2 A 10:32

PROCUREMENT DIVISION
STATE OF WV



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
DNRB11058

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
**FRANK WHITTAKER
 304-558-2316**

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO

**DIVISION OF NATURAL RESOURCES
 PARKS & RECREATION SECTION**

**324 4TH AVENUE
 SOUTH CHARLESTON, WV
 25303-1228 304-558-3397**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/02/2011				

BID OPENING DATE: **03/03/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		
<p>ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL</p> <p>EXPRESSION OF INTEREST (EOI)</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES, IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL, ENGINEERING AND RELATED SERVICES TO DESIGN, CONSTRUCT, OR SPECIFY CERTAIN IMPROVEMENTS OR REPAIRS TO THE SWIMMING POOLS, SWIMMING BEACH AND RELATED FACILITIES PER THE ATTACHED.</p> <p>ALL TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WV PURCHASING DIVISION VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV OR VIA FAX AT 304-558-4115. DEADLINE FOR TECHNICAL QUESTIONS IS 02/16/2011 AT 4:00 PM. ALL TECHNICAL QUESTIONS WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE.</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.: DNRB 11058</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>[Signature]</i>	TELEPHONE 304 251 2234	DATE 1/17/11	
TITLE <i>[Signature]</i>	FERN 86-1081386	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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<p>ADDENDUM NO.'S:</p> <p>NO. 1</p> <p>NO. 2</p> <p>NO. 3</p> <p>NO. 4</p> <p>NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p>..... <i>[Signature]</i> President SIGNATURE ... <i>M.J.A. Engineering, Inc</i> COMPANY <i>1. Mar. 2011</i> DATE</p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p>						

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<p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 44</p> <p>RFQ. NO.: DNRB11060</p> <p>BID OPENING DATE: 03/03/2011</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY</p>						

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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>TO CONTACT YOU REGARDING YOUR BID: ----- 304 291-2246 (f) ----- CONTACT PERSON (PLEASE PRINT CLEARLY): ----- Craig Miller -----</p>						
<p>***** THIS IS THE END OF RFQ DNRB11058 ***** TOTAL:</p>						_____

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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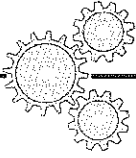
GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



MILLER

ENGINEERING, INC.
"Autographed with Excellence"

28 Feb 2011
Mr. Frank Whittaker
Senior Buyer
WV Purchasing Division
2019 Washington St. East
POB 50130
Charleston, WV 25305

Mr. Whittaker,

Miller Engineering, Inc. is pleased to express our interest in providing professional engineering services to the WV Purchasing/ WV Division of Natural Resources RFQ# DNRB11058 for Professional Architectural and Engineering and Related Services for Improvements and Repairs to Swimming Pools, Swimming Beaches, and Related Facilities. We believe MEI and KCI are highly qualified to provide the services required for the project.

MEI will be the prime consultant on this project and Craig Miller, President, will be the project manager and Principal Engineer of Record. KCI of Morgantown will provide civil, site, architectural support as needed as a sub-consultant to MEI. John Rudman of KCI will lead the KCI efforts.

MEI performs design services in throughout West Virginia on a daily basis. We provide services on new construction, facility assessment, renovation, maintenance repair and engineered equipment replacement. Our history of operations, construction and repairs of commercial swimming pools is unsurpassed throughout the state. MEI delivers a quality, cost effective, product developed through a highly interactive process from initial contact through the warranty period. We believe in frequent communication between the Owner, Designer, and Contractor to help ensure the work is not stopped by a small issue. This "hands on" approach helps spot potential problems and answer questions proactively. MEI has been repeatedly praised by its clients for the time spent and dedication shown.

We will directly use our engineering abilities and extensive design experience to your advantage. MEI has significant and varied experience in the repair and replacement of pools and their associated filtration, chemical feed, mechanical, electrical, heating systems in both new and older structures. Craig Miller will lead this effort. He is both a graduate of the WVU Engineering School and a former WVU Facilities' Engineer. He has experience while working in the educational, recreational, commercial HVAC, and consulting industries and possesses an operational knowledge of facilities maintenance and construction. Craig designed

and managed a great many projects while at WVU and has continued to advance his skills over the years. Craig will be assisted by Mr. Brandon Merriman EI, Miss Shelby McMahon, and Mr. Robert Angus as required to implement the project.

John Rudmann, PE is a licensed civil engineer, a licensed landscape architect, and a LEED Accredited Professional with many years experience on many project of similar nature and will be instrumental in the beach portion of the project. Richard Butt is a senior Engineer with KCI with great experience in civil/ site, park planning, and contracting requirements. Both MEI and KCI's highly experienced personnel have the unique opportunity to focus on performing design services without the burden of managing large groups of lesser experienced personnel.

MEI has the training, experience, and multi-discipline support to meet the needs of this project. Due to our small size, we can mobilize quickly. We have an excellent working knowledge of the facility type and program in question, and can deliver high quality, personalized professional services. We would like to thank you for this opportunity and if Miller Engineering, Inc can be of service to you in this matter, please don't hesitate to contact me at 304-291-2234.

Please find our response to your expression of interest attached.

We wish you great success with the Pool/ Bathing Beach Repair and Replacement Project and continued success in the future.

A handwritten signature in black ink, appearing to read 'Craig Miller', with a large, stylized flourish extending from the end of the signature.

Craig Miller, PE
President
Miller Engineering, Inc.

SPECTRUM POLICY DECLARATIONS (Continued)

POLICY NUMBER: 40 SBA IR8720

BUSINESS LIABILITY	LIMITS OF INSURANCE
LIABILITY AND MEDICAL EXPENSES	\$1,000,000 ✓
MEDICAL EXPENSES - ANY ONE PERSON	\$ 10,000
PERSONAL AND ADVERTISING INJURY	\$1,000,000
DAMAGES TO PREMISES RENTED TO YOU ANY ONE PREMISES	\$1,000,000
AGGREGATE LIMITS	
PRODUCTS-COMPLETED OPERATIONS	\$2,000,000
GENERAL AGGREGATE	\$2,000,000 ✓
EMPLOYMENT PRACTICES LIABILITY COVERAGE: FORM SS 09 01	
EACH CLAIM LIMIT	\$ 500,000
DEDUCTIBLE - EACH CLAIM LIMIT	\$5,000
AGGREGATE LIMIT	\$ 500,000
RETROACTIVE DATE: 04232010	

This Employment Practices Liability Coverage contains claims made coverage. Except as may be otherwise provided herein, specified coverages of this insurance are limited generally to liability for injuries for which claims are first made against the insured while the insurance is in force. Please read and review the insurance carefully and discuss the coverage with your Hartford Agent or Broker.

The Limits of Insurance stated in this Declarations will be reduced, and may be completely exhausted, by the payment of "defense expense" and, in such event, The Company will not be obligated to pay any further "defense expense" or sums which the insured is or may become legally obligated to pay as "damages".

BUSINESS LIABILITY OPTIONAL COVERAGES

EMPLOYEE BENEFITS LIABILITY
COVERAGE: FORM SS 40 50

EACH CLAIM	\$1,000,000
AGGREGATE	\$2,000,000

*1100240IR87200101 06332



**POLICY
DECLARATIONS**

AGENCY BRANCH	PREFIX	POLICY NUMBER	INSURANCE IS PROVIDED BY
056124	969	25-408-45-18	CONTINENTAL CASUALTY COMPANY
	SFH		333 S WABASH AVE, CHICAGO, IL 60604,
			A STOCK INSURANCE COMPANY,
			HEREIN CALLED WE, US, OR OUR.

NOTICE

THIS IS A CLAIMS-MADE POLICY. PLEASE READ THIS POLICY CAREFULLY AND DISCUSS THE COVERAGE WITH YOUR INSURANCE AGENT OR BROKER.

1. NAMED INSURED:

MILLER ENGINEERING, INC.

2. ADDRESS:

P.O. Box 42
Garards Fort, Pennsylvania 15334

3. **POLICY TERM:** From: 11/01/2009 To: 11/01/2011 AT 12:01 a.m.
Standard time at **your** address shown above.

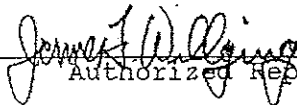
4. **KNOWLEDGE DATE:** 11/01/03

5. **DEDUCTIBLE:**

- a. \$ 1,000 Purchased Deductible
- b. \$ N/A Deductible Credit
- c. \$ 1,000 is Deductible per **claim** (including **claim expenses**)
- d. \$ N/A is Aggregate Deductible per **policy year**
(including **claim expenses**)

6. **LIMIT OF LIABILITY:**

- a. \$ 1,000,000 Per **claim** limit of liability (including **claim expenses**)
- b. \$ 2,000,000 Aggregate limit of liability per **policy year**
(including **claim expenses**)



Authorized Representative

Countersignature (if required)

BROKER

RFQ No. DNRB/11058

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Millias Employment Inc

Authorized Signature: [Signature] Date: 1 Mar 11

State of West Virginia

County of Monongalia, to-wit:

Taken, subscribed, and sworn to before me this 1 day of March, 2011.

My Commission expires March 21, 2019.

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

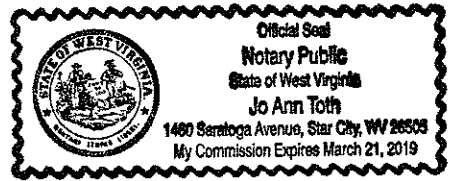
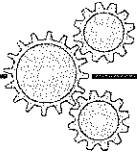


TABLE OF CONTENTS

1. RESPONSE
2. FIRM PROFILE
3. CREDENTIALS
4. PROJECT DATA
5. ADDITIONAL INFO/ SAMPLES



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Craig Miller, PE
President
Miller Engineering, Inc.



MILLER ENGINEERING, INC.

SUMMARY

Miller Engineering, Inc. (MEI) provides professional services to facility owners and operators, architects, and contractors throughout West Virginia, Pennsylvania, Ohio, and Western Maryland. MEI services range through all facets of mechanical, electrical, and plumbing design as well as construction administration and project management. We utilize the abilities of designers with many years experience in their area of expertise, teamed with younger designers on a “best resource for the project approach”. We also provide project management services at levels ranging from general oversight to complete project delivery through all phases of design and construction. Our personnel have worked in both the private and public sector and are familiar with many methods of project delivery from classic design/bid/build to full design/build with partnering.

MEI has developed the following philosophy to guide the performance of its services:

- Provide superlative design services to our clients in new construction, renovations, and daily operations.
- Perform work in a timely, accurate, and professional manner.
- Present multiple alternative and solutions whenever possible.
- Work with our clients to control first and life cycle costs.
- Be a technical “sounding board” for our clients in all situations.
- Strive to maintain professional competency through continuing education and training.

MEI utilizes a “practical application” approach to all projects throughout the design process to provide a “well rounded” result. This methodology emphasizes the best overall solution, meeting all the client’s needs, instead of just the best technical solution. We believe our small size provides a distinct advantage to our clients and affords us the freedom to easily team with the clients to achieve the overall best possible result. We like to say “we’re small but mighty”.

KCI Technologies, Inc.

As one of the nation's leading multi-discipline, full-service engineering firms, KCI Technologies, Inc. (KCI) is consistently ranked among the top 100 consulting engineering firms in the country by Engineering News Record.

With a professional staff of engineers, planners, scientists, surveyors, and construction managers, we offer a broad range of engineering services, including civil, structural, transportation, environmental, hazardous waste, mechanical, electrical, telecommunications, and soils. We also provide cultural and environmental resource management services, land planning and landscape architecture, geology, hydrology, ecology, surveying, and construction management and inspection.

The professional staff is supported by CADD (Computer-Aided Drafting and Design) designers, BIM (Building Information Modeling) designers, GIS (Geographic Information Systems) experts, and database analysts, programmers, and technicians; as well as state-of-the-art computer, field, and lab equipment. KCI's computer network supports the firm's core production systems, including BIM, CADD, GIS, three-dimensional visualization/animation tools, document processing and desktop publishing, and project management. The firm's integrated approach to automating design, drafting, documentation, and presentation minimizes costs, facilitates coordination among engineering disciplines, and expedites the production of high-quality products.

At KCI, we believe that our broad technical expertise, combined with our unique commitment as employee owners, has enabled us to emerge as industry leaders whose customers can count on excellent service time and again.

Location

KCI Technologies, Inc.

48 Donley Street, Suite 502

Morgantown, WV 26501

Phone: 304-296-3611

Fax: 304-296-8046

Contact: John Rudmann, PE, RLA, LEED AP

KCI has been working throughout the state of West Virginia for more than 15 years and is familiar with conditions and infrastructure of West Virginia. Our local office has a wide range of experience working with various state agencies, as well as private developers and contactors. Our backgrounds range from WVDOH to USDA Rural Development. We have engineers who understand and advocate for the needs of rural communities and public service districts. KCI has the knowledge to aid our clients in all aspects of this project including but not limited to preliminary study, preliminary design, funding assistance, final design, bidding services, construction administration, construction inspection, or any other service needed to complete these types of projects.

Quality Assurance

KCI's Quality Assurance and Quality Control program is rigorous and effective. KCI is operating using an ISO 9001:2008 compliant Quality Management System, making our philosophy and approach unique in the A/E community. Quality control procedures for the work performed in each of KCI's technical disciplines are defined in each discipline's quality control manual. These procedures, developed by the technical staff, contain specific instructions on the preparation, checking, review, and coordination of each of the various work products produced by the discipline. Developing separate quality control procedures for each technical discipline allows the procedures to be customized and rigorous for the work products produced in that discipline. The purpose of these procedures is to eliminate potential errors, omissions, ambiguities, and inconsistencies in the design and development of project documents. These manuals and their implementation constitute the principal mechanism for technical quality control at KCI. Our primary quality objectives are to:

- Satisfy client expectations through designs and professional services that conform to client specifications;
- Continually review company performance by analyzing objective data regarding both our processes and deliverables; and
- Use this objective data to identify and drive opportunities to continuously improve the Quality Management System.

ISO is a quality management system (QMS) standard requiring that company activities be modeled as a system of inter-related processes and that these processes be continually audited in order to objectively measure performance and improve outcomes. A key component of the ISO standard that differentiates it from others systems is the mandatory continual auditing and improvement requirement. Quality control procedures for the work performed in each of KCI's technical disciplines are defined in each discipline's quality control manual. Conformance to these procedures is ensured through KCI's internal auditing process.



B. CRAIG MILLER, PE, LEED-AP
PRESIDENT
ENGINEER IN RESPONSIBLE CHARGE

EDUCATION Bachelor of Science in Mechanical Engineering,
West Virginia University - 1995
Bachelor of Arts in Mass Communication,
University of Charleston (WV) - 1988

REGISTRATIONS Professional Engineer, West Virginia
Professional Engineer, Pennsylvania
Professional Engineer, Maryland
Professional Engineer, Ohio

QUALIFICATIONS Craig has more than 15 years' experience in the design, specification, and construction/ project management of mechanical, electrical, and plumbing systems and 10 years experience in facilities operations, maintenance, and management. He specializes in retrofits and upgrades to existing systems and what he terms "operational engineering" or implementing changes to, while maintaining the operational requirements of, a facility or system. He has worked extensively in the educational/ institutional environment including spending several years as a systems mechanic performing various trades work prior to obtaining his engineering education. His trades work gives him a distinctive "hands on" approach to engineering application and design.

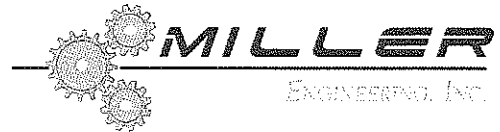
Prior to founding MEI, Craig worked as a staff engineer for Casto Technical Service (Trane) performing engineering evaluation and design on various mechanical system upgrades including: Marion County Courthouse, Davis & Elkins Student Union, Charleston Area Medical Center, Women's and Children's Hospital, and Wetzel County Hospital. Preceding his time with Casto Technical, Craig spent two years at Uniontown Hospital as Assistant Director of Engineering. He managed the day-to-day operations of maintenance personnel, managed projects and performed operational engineering service to the facility mechanical, electrical, and plumbing systems. His principal operational engineering foci were the hospitals' steam, chilled water, air handling infrastructure and their associated control systems. He managed real-time upgrade projects to the hospital facilities and the full



accreditation review of hospital systems operation and maintenance.

Craig worked as a staff engineer at West Virginia University Physical Plant for six years. During that time he managed multiple facility and infrastructure upgrade projects, performed engineering design, assisted maintenance personnel with operational issues, and managed the University's Energy Program. Additionally, he served as the Owner's design review engineer on approximately \$130 million in new capital construction. Craig's WVU projects included mechanical, electrical, plumbing, infrastructure, control, and energy systems repair and maintenance totaling approximately \$20 million.

Prior to his position at WVU, Craig worked in operations and facility maintenance for the Morgantown Board of Parks and Recreation while attending the WVU School of Engineering. He performed mechanical and electrical systems maintenance duties and associated engineering design work while helping to maintain and upgrade the park systems' facilities. Craig started his mechanical systems career as an apprentice and then as a maintenance systems mechanic in the Physical Plant at the University of Charleston.



B. Craig Miller, PE, LEED-AP

President

Miller Engineering, Inc

BS Mechanical Eng., West Virginia University, 1995
BA Mass Communications, Univ. of Charleston, 1988

RESPONSIBILITIES INCLUDE:

Engineer in Responsible Charge of all projects.

Design, Project Management, Construction Administration of Mechanical, Electrical, Plumbing systems for new construction and renovation projects.

Managing all aspects of projects from evaluation and initial identification of project opportunities, developing concept, schematic and construction design, bidding, submittal review and project management as required to deliver project with specific objectives in a given time frame.

Registrations: Registered Professional Engineer in West Virginia, Pennsylvania, Maryland, and Ohio

PROFESSIONAL HISTORY

CASTO TECHNICAL SERVICES

Charleston, West Virginia

Existing Building Services Staff Engineer

Nov 2002 – September 2003

Duties include:

Completion of HVAC performance contracting and “turn key” retrofit projects.

Managing all aspects of projects from evaluation and initial identification of project opportunities, developing concept, schematic and construction design, managing project team and subcontractors to deliver project with specific objectives in a given time frame.

Responsible for administration, implementation, and management of performance contract based and “turn key” mechanical, electrical projects.

UNIONTOWN HOSPITAL ENGINEERING DEPARTMENT

Uniontown, Pennsylvania

Supervisor of Engineering and Clinical Engineering

Feb. 2001 – Oct 2002

Work included:

Supervising Engineering personnel in the day-to-day operation of Hospital’s physical facilities including: mechanical, electrical, plumbing, and structural troubleshooting.



- Managing the Clinical Engineering technician in the repair and maintenance of patient-critical support and monitoring equipment.
- Managing small alteration and construction projects
- Managing the facility's preventative maintenance program.
- Re-commissioning HVAC systems and controls.
- Managing the personnel safety, and "cross training" program.
- Keeping the hospital code compliant with such codes as: NFPA, NEC, ADA, BOCA, JCAHO.

WEST VIRGINIA UNIVERSITY PHYSICAL PLANT
Morgantown, West Virginia

Staff Engineer

Nov. 1995 - Feb2001

Work included:

- Assisting in-house maintenance personnel in troubleshooting mechanical, electrical, plumbing, and structural operations problems.
- Assisting in-house personnel in maintenance of the University's facilities.
- Managing the University Energy Efficiency Program
- Scoping, budget estimating, designing, preparation of project documents including drawings and specifications, bidding, and overall project management of alteration, maintenance, and repair projects in support of the University function as a major research institution (project list attached).
- Managing projects which have been designed by outside A/E firms
- Infrastructure planning for both alterations and capital construction projects
- Reviewing designs by outside A/E firms for compliance codes such as: NFPA, NEC, ADA, BOCA, ALAC, as well as the University's construction standards and constructability.

WEST VIRGINIA UNIVERSITY PHYSICAL PLANT
Morgantown, West Virginia

Interim Manager of Alterations, Engineering, & Energy Unit

November 1997 – March 2000

Duties included all duties of Staff Engineer's Position listed above and additionally:

- Managing day to day operation of the Engineering Unit and it's integration with other Physical Plant units, other University departments, and outside entities such as contractors and the public
- Integrating the Engineering Unit with the Capital Construction Unit in the design review of all Capital projects
- Supervision and tasking of Staff Engineers, Alterations Project Managers, Project Inspector, Landscape Designer, Elevator Contract Manager, Drafting Technician, Secretary/Receptionist, Student Interns
- Prioritization of Unit's work responsibilities in such a manner as to deliver projects on-time, within budget
- Review of all the unit's design and contract work prior to release for procurement of services



**BOARD OF PARKS AND RECREATION COMMISSIONERS (BOPARC)
Morgantown, West Virginia**

Caretaker – Krepps Park

May 1990 – November 1995

Work included:

Managing aquatics facilities operations

Performing maintenance and repair work to park system facilities

Design and construction of facilities upgrades to park system facilities

**UNIVERSITY OF CHARLESTON PHYSICAL PLANT
Charleston, West Virginia**

Electrician / HVAC Mechanic

October 1983 – August 1988

Work included:

Work as systems mechanic performing maintenance, repair, and construction to mechanical, Electrical, and Plumbing systems throughout the University facilities.



BRANDON MERRIMAN, EI
MECHANICAL DESIGNER

EDUCATION

Bachelor of Science in Mechanical Engineering
West Virginia University - 2006
Promise Scholar

Master of Business Administration
West Virginia University - 2010

QUALIFICATIONS

Brandon is a MEP designer of over 4-1/2 years experience in the design, specification, and project management of projects. Brandon recently completed his MBA at WVU. He is a WV certificated engineering intern and is preparing to set for his professional engineer's registration in April 2011. A graduate of the West Virginia University College of Engineering, Brandon first worked for MEI as an intern during the summer of 2005 and his senior year at WVU. After graduation Brandon came to MEI full time as a mechanical engineering intern/designer.

Brandon has been highly involved in the design of MEP systems for many facilities since arriving at MEI. He arrived at MEI with an excellent academic record and a willingness to learn and has become a highly valuable member of our team in a short period of time. Over the last four-plus years he has been highly involved with not only the design but the construction administration of a variety of projects including renovations and new construction. His work has proven invaluable and he possesses a keen ability to grasp and apply new information.

Brandon will be setting for his Professional Engineer's license exam in 2010 and plans to continue consulting.

REGISTRATIONS

Fundamentals of Engineering, West Virginia PE Board
- April 2006



Brandon Merriman - EI

BS Mechanical Engineering, West Virginia Univ – 2006
MS Business Administration, West Virginia - 2010

Mechanical, Electrical, Plumbing Designer
Miller Engineering, Inc 2007 – present

RESPONSIBILITIES INCLUDE:

Facilities evaluation

Design of mechanical, electrical and plumbing systems for renovations,
additions, and new construction.

Management of project construction including submittal review and

Licenses and Certifications:

Engineer in Training Certification, WV PE Board, 2006



JACK JAMISON
CONSTRUCTION PROJECT REP

EDUCATION

Fairmont State College
Bachelor of Science, Engineering Technology -
Electrical Electronics, 1971

QUALIFICATIONS

Jack is actually in transition from his previous employment as an electrical and building inspector to his position as a construction project representative for MEI. He joined MEI with over 20 years experience in the commercial electrical construction field and 10 as an electrical/building inspector. He has, over the last few years, become certified as a Master Code Professional and his list of certifications appears below. Jack's knowledge of building codes is one of the best in the state and he is considered by many "a walking code book".

In addition to his duties as a project rep, Jack performs code research and constructability review of projects. He interfaces with code officials on issues that might arise. Jack teaches classes in codes throughout the year including NEC change review courses at each NEC cycle.

**CERTIFICATIONS/
LICENSES**

Master Code Professional
ICC Commercial Building Inspector
ICC Building Plans Examiner
ICC Commercial Plumbing Inspector
ICC Residential Energy Inspector/Plans Examiner
ICC Accessibility Inspector/Plans Examiner
IAEI Certified Electrical Inspector-Master
Certified WV Home Inspector
Class C Electrical Inspector - WV State Fire Marshal
WV Master Electricians License M04937
NCPCCI (1A) Building 1 and 1 Family Dwelling
NCPCCI (2A) Electrical 1 and 2 Family Dwelling
NCPCCI (4A) Mechanical 1 and 2 Family Dwelling
NCPCCI (5A) Plumbing 1 and 2 Family Dwelling
NCPCCI (2B) Electrical General
NCPCCI (2C) Electrical Plan Review
NCPCCI (4B) Mechanical General
NCPCCI (4C) Mechanical Plan Review



Jack E. Jamison, Jr.

**BS Engineering Technology—Electrical Electronics,
Fairmont State College 1971**

**Construction Project Representative/Electrical Design
Miller Engineering, Inc**

RESPONSIBILITIES INCLUDE:

Facilities evaluation

Design of electrical systems for new construction and renovation projects

Management of project construction including field project observation and
issue resolution

Code research and constructability review of projects, estimating

Licenses and Certifications:

Certified Master Code Professional

IAEI Certified Electrical Inspector—Master

Class C Electrical Inspector—WV State Fire Marshal, WV Master Electrician

ICC Commercial Building/Plumbing Inspector

Certified WV Home Inspector

PROFESSIONAL HISTORY

MEGCO INSPECTIONS, INC.

Keyser and Morgantown, West Virginia

Chief Inspector

May 1999—Present

Duties include:

Inspect and certify commercial and residential electrical services as code
compliant as required by Allegheny Power. Inspect and certify residential
structures for West Virginia housing financing agencies.

JAMISON ELECTRICAL CONSTRUCTION COMPANY

Morgantown, West Virginia

Electrician

December 1972—June 1998

Work included:

Installed, maintained and repaired all types of commercial and light industrial
electrical apparatus including original piping of runs, connections, startups
and maintenance. Primary customers included restaurants, gasoline bulk
plants (hazardous location), communication facilities, water plants,
pumping stations, water slides, public swimming pools, banks, schools and
printing shops. Designed and installed lighting and equipment layouts
including generator-transfer switch combinations and fire alarm systems.



ROB ANGUS
CONSTRUCTION PROJECT REP/ ESTIMATOR

EDUCATION

Heating, Cooling, and Refrigeration Certificate
Mon County Tech Ed Ctr - 2000

QUALIFICATIONS

Rob came to MEI with 20 years experience, 10 in facilities maintenance and operations working for the Morgantown Board of parks and Recreation first as a maintenance and then as head of maintenance operations. Rob has run his own contracting company for the last ten years doing residential and commercial construction, electrical, plumbing, and HVAC work.

Rob's experience allows him to manage construction and bring an experienced, common sense eye to and issues or concerns that might arise. His background helps him "talk the talk" with contractors and resolve issues quickly. Robs involvement in a project starts early in design with him performing estimating. This allows him the opportunity to "learn the job" prior to its actual start.

**CERTIFICATIONS/
LICENSES**

Licensed WV General Contractor
Licensed HVAC Contractor
Certified HVAC Mechanic Contractor
Licensed Journeyman Electrician
Licensed Master Plumber



Shelby McMahon

**Associates Degree, Architectural Engineering
Technology, Penn State Fayette 2008
Associates Degree, Building Systems Technology,
Penn State Fayette 2008**

**Mechanical Technician
Miller Engineering, Inc**

RESPONSIBILITIES INCLUDE:

Design of MEP systems for new construction and renovation projects including mechanical modeling and layout, drafting, and scheduling of systems components. Electrical systems and Fire Alarm layout. Plumbing and piping design and layout. Drafting of MEP systems including details and schedules. Construction administration including submittal review, RFI responses, and punchlisting.

STUDENT ACTIVITIES

PENN STATE UNIVERSITY, FAYETTE CAMPUS

Capstone project--2008

Green roofing system for the Fayette Campus engineering building

ASSOCIATION OF HEATING AND AIR CONDITIONING ENGINEERS (ASHRAE)

Member

John Rudmann, PE, RLA, LEED AP

Civil Engineer/Landscape Architect

Education

BS / Civil Engineering
BS / Landscape Architecture

Registration

RLA / WV / 341
Also RLA in MD, OH, PA
PE / WV / 14779
Also PE in MD, PA
LEED AP

Total Years with KCI: 3

Total Years of Experience:

16

Mr. Rudmann is a licensed civil engineer, a licensed landscape architect, and a LEED Accredited Professional. His responsibilities have included being a Project Manager, a Senior Civil Engineer, and a Senior Landscape Architect for many site design projects. As a designer, his design tasks have included site master planning, stormwater design, utility design, grading, access road design, erosion and sediment control design, pedestrian plaza design, site permitting, golf course design, and completing project specifications. He has designed several different methods of bio-filtration and has completed all the necessary credit paper work to achieve LEED Certification. Relevant project experience includes:

Center Street & Philadelphia Avenue Park/Trail/Parking Area Master Plan Project. City of Bridgeport, WV. Project Manager. Responsible for designing a 2,000 foot trail, access road with two parking lots, an active and passive recreational area, and developing concepts for future expansion. The active recreational areas included soccer fields and playground areas and the passive recreation areas included sitting areas along the trail and as a focal point a large gazebo which could function as a stage for concerts, flea markets, and other miscellaneous activities. Mr. Rudmann created four conceptual design alternatives along with the corresponding cost estimates. He developed an interactive design process to keep the client engaged in the process.

Cacapon Resort State Park Lodge Expansion and Park Improvement. Capacon, WV. Civil/Site Engineer. As a subconsultant to Paradigm Architecture, KCI managed and performed tasks for water and wastewater system improvements as part of state park upgrades and expansion project. Mr. Rudmann is responsible for completing the design for golf course pond renovations, including pond bank stabilization and lowering the water surface elevation; complete sand bunker renovation, including new drainage system design, adding liners, re-shaping, re-edging, and re-contouring; and the replacement of most existing site drainage structures.

Downtown Student Housing Project. Morgantown, WV. Senior Design Engineer. KCI was a subconsultant to Paradigm Architecture for the New Honors Dormitory located on West Virginia University's downtown campus. KCI was responsible for overall site design, courtyard, utility lines, sidewalks, drainage, stormwater retention, grading plans, erosion and sedimentation control plans, and all the site/civil permitting. The courtyard/plaza design included several pergolas, intimate smaller gathering spaces, attractive colored and textured concrete patterns, pedestrian and overhead lighting, and safety improvements.

New Northside Fire Station. Morgantown, WV. Senior Design Engineer. KCI was a subconsultant for the new Northside Fire Station for the City of Morgantown. KCI was responsible for overall site design, access roads, utility lines, sidewalks, drainage, stormwater quality and retention, grading plans, erosion and sedimentation control plans, and the site/civil permitting. Mr. Rudmann was responsible for the overall design of all site/civil services, utilizing cost-efficient design principles to keep the project under budget, while still meeting strict environmental standards. Mr. Rudmann completed the necessary LEED submittal paperwork for sustainable site and water efficiency credits. Client is pursuing LEED certification.

Richard Butt, PE, LEED AP

Civil Engineer

Education

BS / Civil Engineering
BA / History

Registration

PE / MD / 31089
Also PE in DC, DE, PA
LEED AP

Total Years with KCI: 6

Total Years of Experience:
15

Mr. Butt is a Senior Project Engineer with more than 15 years experience in plans and specification development, cost estimates, quality control review, and management for projects involving educational and municipal facilities, residential subdivisions, and roads and highways. These projects have involved site development plans, stormwater management, drainage, erosion and sediment control plans, grading, and utilities. His experience also includes the permit processing. Relevant experience includes:

On-Call Landscape Architectural/Civil Engineering Services. Baltimore County, MD. Civil Engineer. KCI was awarded a second consecutive four-year contract to provide on-call landscape architectural and civil engineering services to the Baltimore County Department of Recreation and Parks. Project involved full services including planning, civil engineering, and landscape architectural design for a variety of park and recreation-related projects. Multiple projects have been successfully completed, including:

- **Chesterwood Park. Dundalk, MD.** Responsible for the site/civil design for the conversion of a DPW Highway Shop to a county park including lit and irrigated athletic and practice field facilities, playgrounds, and required parking and access roads. Also included design of a new concession building and comfort station along with complete renovations to existing park pavilions and existing derelict boat ramp. The addition of a new fishing pier was also part of the project. Specific responsibilities included grading and drainage design, sediment and erosion control design, layout of new parking lot, new pavement design, design of proposed water and sanitary sewer systems, specification writing, and development of construction cost estimate.
- **Hannah Moore Park Balls Fields. Reisterstown, MD.** KCI provided site/civil, structural, MEP engineering, cost estimating, and surveying services for the development of construction documents for improvements to the 55 acre park. Provided design for the re-grading of existing athletics fields (two football fields and two baseball fields) and a swale adjacent to the field to provide better drainage and erosion protection for the fields. Irrigation design was also provided for the existing athletic field. Additional park upgrades included the design of handicap access from parking lots to the ball fields and steps from the concession building to the ball fields.

On-Call Landscape Architectural/Civil Engineering Services for Natural and Artificial Turf Athletic Field Development. Baltimore County, MD. Civil Engineer. KCI, as a subconsultant, was selected to provide design services for synthetic and natural turf fields for Baltimore County Department of Recreation and Parks. The County plans to upgrade athletic surfaces throughout the park system. To date, five fields have been assigned including:

- **Seminary Park. Lutherville, MD.** KCI provided site planning, site/civil engineering, structural engineering, surveying, and testing and inspection for the renovation of the existing 12 acre park. The project consisted of re-grading two soccer/lacrosse fields and one baseball diamond and the conversion of one of the soccer/lacrosse fields from natural to synthetic turf.

Southern Maryland Baseball Stadium. Charles County, MD. Project Manager. KCI, as a subconsultant, provided site engineering and wastewater pumping station design for the \$22 million Minor League Baseball Stadium. The approximately 40 acre stadium site was a mining reclamation area. The stadium accommodates approximately 4,500 patrons with overflow seating available on grassy berms. The site includes 2,000 parking spaces. Responsible for the layout and design of all parking areas and necessary drive aisles. The site was graded and

KCI Technologies, Inc.

designed to meet 2000 MDE Stormwater Management Guidelines. Also responsible for erosion and sediment control issues related to the stadium's development.

PROJECT: GREENBRIER S. P. POOL FILTRATION

**OWNER: WEST VIRGINIA DEPARTMENT of
NATURAL RESOURCES**



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget:
\$100,000K (est.)

MEP Budget:
\$100,000K (est.)

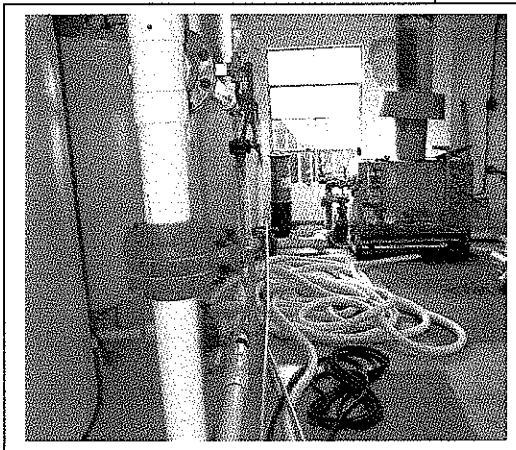
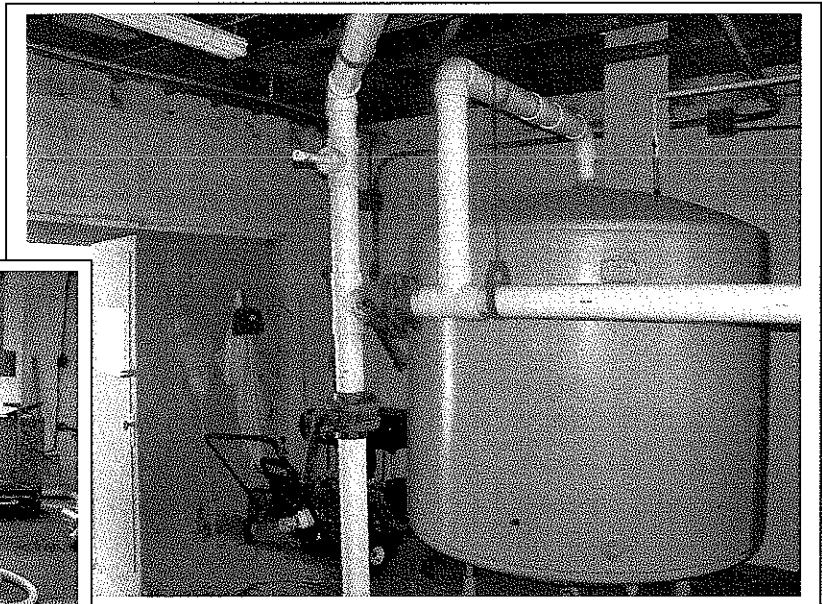
Facility Area:
500ft²

Services Provided:
Pool Filtration Systems

Project Status:
Construction

**Project Completion
Date:**
May 2011

The Project includes the replacement of the existing filtration and heating systems serving the pool. The filtration and heating systems were sized and configured not just for the existing pool but also to accommodate a larger pool renovation in the future.



PROJECT DESCRIPTION:

The pool will incorporate know, durable technology for its construction and operating systems. High rate fiberglass sand filters provide circulation and filtration of the pool water. The chemical disinfections will utilize sodium hypochlorite and muratic acid for disinfection.

REFERENCE:

**Brad Leslie PE, WV Department of Natural Resources
324 Fourth Ave, South Charleston, WV 25303
304-558-2764**

**PROJECT: TOMLINSON RUN STATE PARK POOL
REPAIR**

OWNER: WEST VIRGINIA DEPARTMENT of NATURAL RESOURCES



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget:
\$850,000K (est.)

MEP Budget:
\$850,000K (est.)

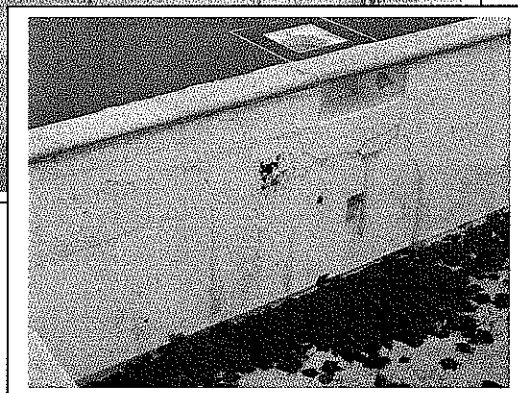
Facility Area:
15,000ft²

Services Provided:
*Mechanical, Plumbing,
Pool Systems*

Project Status:
*Phase Two
Construction*

**Project Completion
Date:**
May 2009

The Project included a Phase One evaluation of the existing pool and water slide to determine the overall condition and suitability for an extensive repair or replacement. This phase will include preliminary design concepts and budgetary estimation. Phase Two is the design and construction of the pool repair. The repair includes the installation of a new filtration system, gutter system, PVC liner, and addresses several longer term maintenance concerns.



PROJECT DESCRIPTION:

The existing pool was constructed in approximately 1980 by a local pool contractor. The Owner indicates they are experiencing significant leaking and cannot determine the precise cause. Additionally, the pool is experiencing significant cracking at the tops of the pool walls. The water slide is 17 years old and is reportedly difficult to keep in operation due to various maintenance issues. The pool has a rather unique CMU (concrete block) and tension rod wall configuration which is being evaluated for the potential to perform an extensive repair. As part of a repair, the owner wishes to significantly alter the depth profile of the pool and make the pool ADA accessible. The Phase Two construction is in progress at this time.

REFERENCE:

Don Smith PE, WV Department of Natural Resources
1200 Harrison Ave., Suite 222
Elkins, WV 26241
304-637-0300

PROJECT: WVU JACKSONS MILL POOL REPL.
OWNER: WEST VIRGINIA UNIVERSITY, MORGANTOWN, WV



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget:
\$720K

MEP Budget:
\$260K

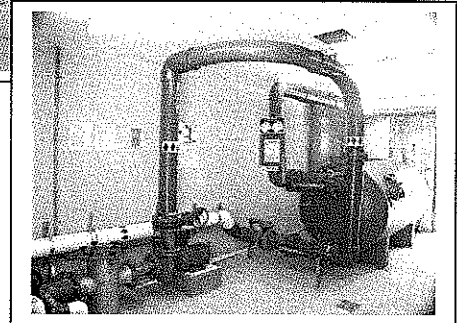
Facility Area:
12,800 ft²

Services Provided:
*Mechanical, Electrical,
Plumbing, Pool Systems*

Project Status:
Completed

**Project Completion
Date:**
March 2004

The Project included design of new piping, gutter, and surge tank systems for the new 155,000 gallon pool basin. The design had to incorporate an existing a five year old high rate sand filtration system. The existing chemical feed system was updated and reused, both at significant cost savings to the Owner. The new pool lighting had to be aesthetically pleasing and accommodate both swimming and deck activities.



PROJECT DESCRIPTION:

The previous Jackson's Mill pool had exceeded its operational life and was losing 10 - 12 inches of treated water per day. MEI and Alpha Associates designed a replacement which met the operational requirements of the state 4 H camp and it's unique pool use. The pool has a unique ratio of wading to diving square footage as the Owner wanted the pool to have a large 4' deep area for camper activities. This presented challenges for the MEP systems to insure that the entire body of water would be re-circulated without the use of in floor piping and inlets, which can be subject to freeze-bursting of piping. The combination supply tube/ gutter perimeter system installed resolved the issue and has resulted in an exceptional facility.

REFERENCE:

Bob Merow, WVU Facilities Management, PDC
979 Rawley Lane
Morgantown, West Virginia 26506
304-293-2875

PROJECT: GRAFTON CITY POOL REPAIRS & WADING POOL REPLACEMENT

OWNER: CITY OF GRAFTON, GRAFTON, WV



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget:
\$70K

MEP Budget:
\$70K

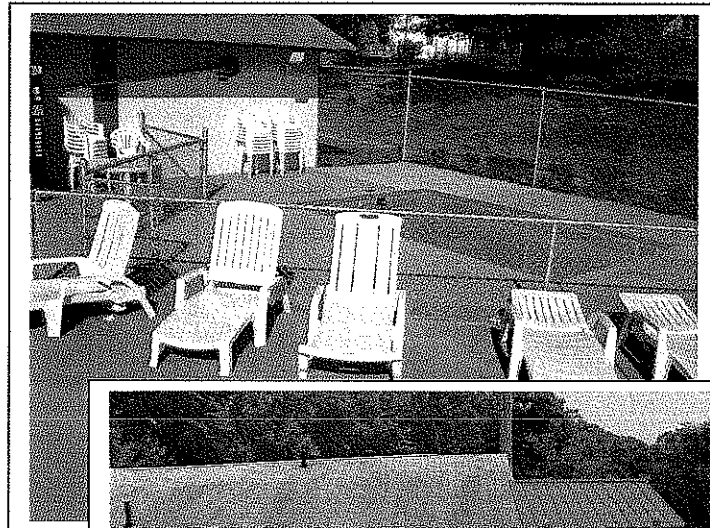
Facility Area:
4500ft²

Services Provided:
*Mechanical, Plumbing,
Pool Systems*

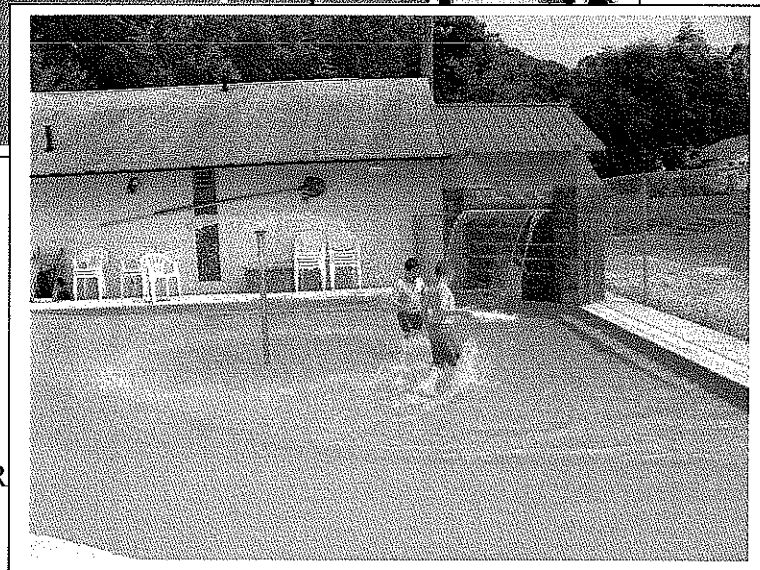
Project Status:
Completed

Project Completion Date:
May 2007

The Project included a complete re-design of the filter room equipment serving the existing main pool. The wading or “baby” pool was in poor condition, un-liked by the public, and suffering form chemistry problems due to poor circulation.



BEFORE



AFTER

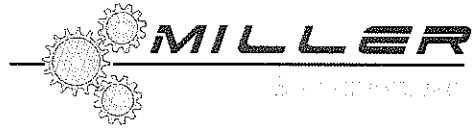
PROJECT DESCRIPTION:

MEI worked with the Owner to upgrade the filtration system and install a chemical feed system on the main swimming pool. MEI designed a new wading pool which is zero grade entry, incorporates a water-spray feature, and increases the play area of the pool. The baby pool includes a castle with an interactive water fall which keeps with the overall “castle” theme of the park in which the pool is located. A new wading pool filtration system and chemical feed system are located in a pump-house addition. MEI provided plans and construction guidance to permit the city to construct the new pool and associated pump-house using city workers, at a substantial savings to the city.

REFERENCE:

Busty Webber
Director of Public Works
Grafton, West Virginia
304-265-1234

PROJECT: MOOREFIELD CITY POOL REPAIR
OWNER: MOOREFIELD PARKS & REC, MOOREFIELD, W



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget:
\$125K

MEP Budget:
\$125K

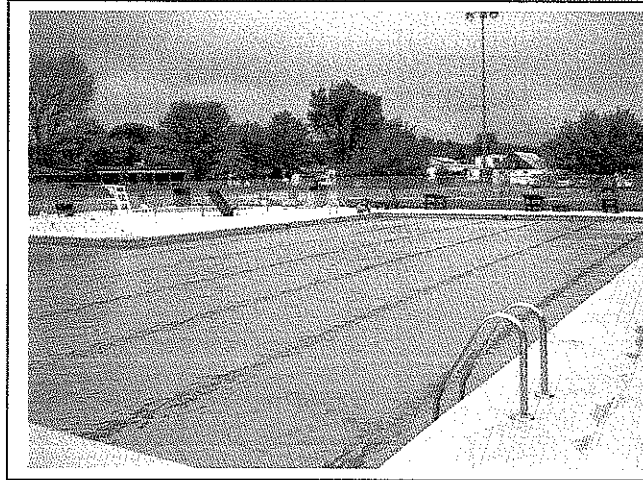
Facility Area:
8,000ft²

Services Provided:
*Mechanical, Electrical,
Plumbing, Pool Systems*

Project Status:
Completed

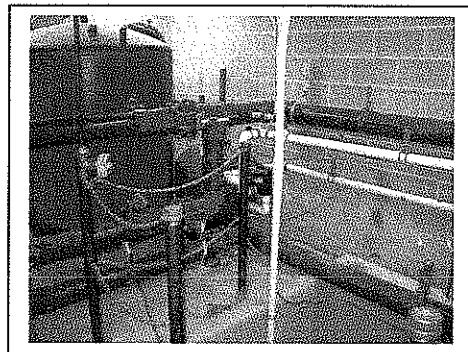
**Project Completion
Date:**
May 2005

The Project included design of new piping to replace the broken piping around the pool. The design included upgrading the electrical service and completely re-configuring the filter house to accommodate new and re-used equipment. The existing high rate sand filtration system serving the pool was re-piped and re-configured, along with new pumps to increase the flow rate to meet current standards.



PROJECT DESCRIPTION:

The stainless walled pool basin was in good condition however the water supply piping was undersized and broken due to freezing. The leaks resulted in a 3 - 5 inch leak per day and very poor water quality. The Owner was often forced to close the diving well due to no visibility through the cloudy water. Water chemistry was unbalanced due to poor circulation and the use of gas chlorine – a safety hazard. The wading pool and the main pool shared a common filtration system which resulted in improper flow to both. The pools were separated and the wading pool received a new, dedicated filtration system. The pool piping was re-designed to prevent freezing by all piping being configured to be drained at the end of the season. Chemical feed systems were added to both pools utilizing bulk liquid chlorine and muriatic acid for disinfection. The Owner reports the community is thrilled with their pool and attendance has increased “significantly”.



REFERENCE:

Bob Clarke
Director of Parks & Rec
Moorefield, West Virginia
304-530-2420

**PROJECT: HUNDRED POOL RENOVATION PHA
ONE – FILTRATION REPLACEMENT**

OWNER: HUNDRED PARKS & REC, HUNDRED, WV



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget:
\$28K

MEP Budget:
\$28K

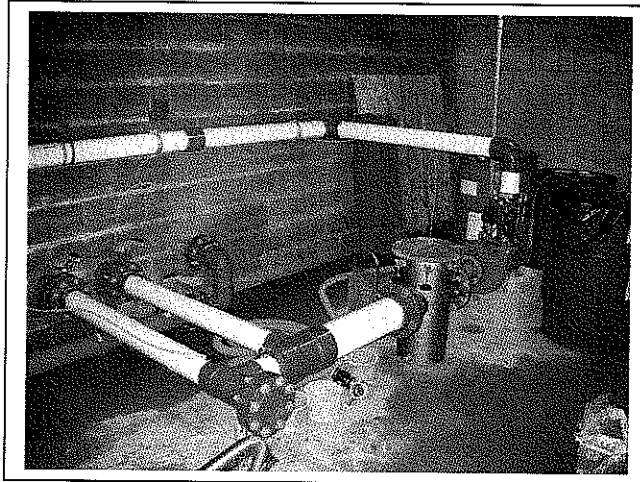
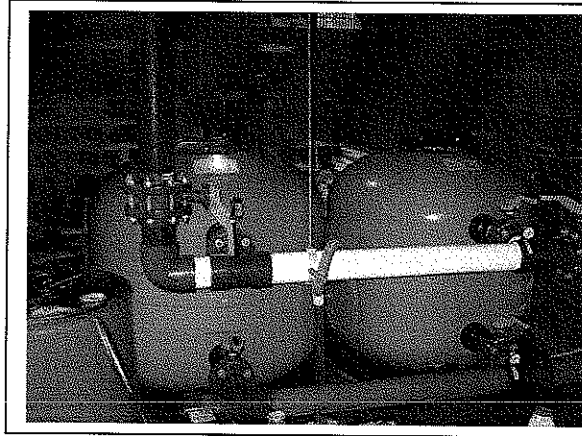
Facility Area:
900ft²

Services Provided:
*Mechanical, Electrical,
Plumbing, Pool Systems*

Project Status:
Completed

**Project Completion
Date:**
May 2003

The Project included a complete re-design of the filter room equipment. The piping was undersized and in pool condition. Residential filters had been installed and required complete replacement. Reconfiguration of the filter room resulted in a much more usable space.



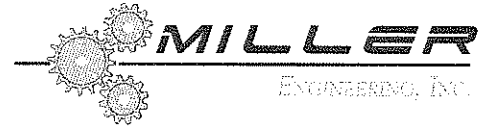
PROJECT DESCRIPTION:

The community pool in Hundred was built in the 1960's by an all volunteer force and has stood the test of time fairly well. The filtration system had been repeatedly altered and had fallen into extreme disrepair. The city feared the pool would have to be closed permanently. MEI worked with the Owner to upgrade the filtration system and install a chemical feed system. The design met the tight budget and has exceeded the Owners expectations. Follow on phases are planned to address longer term issues that were identified during Phase 1.

REFERENCE:

Jean McClelland
Director of Parks & Rec
Hundred, West Virginia
304-775-2492

POOL RELATED PROJECT EXPERIENCE
(2007 to Present)



<p>WVDNR - Twin Falls Lodge – Beckley, WV</p> <p>Scope: Design piping, filtration, and chemical feed for pre-manufactured pool as part of addition to Lodge Status: Completed</p>
<p>The Shack - Pool Repairs – Morgantown WV</p> <p>Scope: Investigate and evaluate leaks at pool as whether they were piping or structural. Design repair based on findings. Status: Complete</p>
<p>Alderson Broadus College – Pool Evaluation – Philippi, WV</p> <p>Scope: Evaluate existing indoor pool, filter equipment, and HVAC systems, make recommendations for repairs and replacement. Estimate costs for repair and replacement Status: On hold pending funding</p>
<p>Nicholas County – Pool Evaluation – Summersville, WV</p> <p>Scope: Evaluate existing outdoor pool, filter equipment, and structural concerns, make recommendations for repairs and replacement. Estimate costs for repair and replacement Status: Complete</p>
<p>Alpine Lakes - Pool Study – Terra Alta, WV</p> <p>Scope: Perform a study with schematic design to evaluate the construction of a new indoor, outdoor or split use pool at the Alpine Lakes Golf community Status: Complete</p>
<p>Tomlinson Run State Park – Pool Renovation – New Manchester, WV</p> <p>Scope: Design, competitively bid, and perform construction administration for a basin repair, liner, and filtrations system replacement/ upgrade at the Tomlinson Run State Park Status: Complete</p>
<p>City of Roncevert – Pool Evaluation – Roncevert, WV</p> <p>Scope: Evaluate existing outdoor pool, filter equipment, and structural concerns, make recommendations for repairs and replacement. Estimate costs for repair and replacement. Master plan the pool site Status: Complete, Construction on hold pending funding</p>
<p>VGB Repairs – BOPARC of Morgantown, WVU Pool Facilities, Oglebay Resort, Grafton Pool, Moorefield Pool, Camp Muffly Pool, The Shack Pool, New Martinsville Pool, Watoga Pool, Wheeling Pool, McMechen Pool, Hundred Pool</p> <p>Scope: Evaluate existing pool main drains for compliance with 2009 Federal regulations for anti entrapment/ anti evisceration suction covers Status: Completed</p>
<p>MercyHurst College – Pool Evaluation – Erie PA</p> <p>Scope: Perform Phase 1 Evaluation of existing indoor pool facility, including HVAC systems, and recommend course of action to bring facility to current standards. Estimate cost and provide written report. Status: Evaluation and Estimate complete, awaiting funding.</p>

West Virginia Project Experience

West Virginia University Downtown Student Housing Project

Morgantown, WV

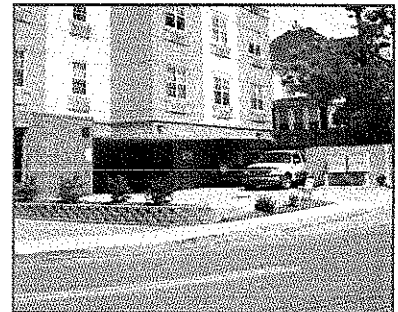
KCI provided civil engineering services for the New Honors Dormitory located on West Virginia University's downtown campus. This project was recently completed. KCI was responsible for overall site design, plaza, utility lines, sidewalks, drainage, stormwater quality and retention, grading plans, erosion and sedimentation control plans, and the site/civil permitting.



The Dayton

Morgantown, WV

KCI provided civil engineering services for the Dayton, a 3-story modular building located at the corners of Ridgeway Avenue, Dayton Street, and Richwood Avenue in Morgantown, West Virginia. The building is a mixed used residential housing project with a parking garage and retail space located on the ground level. KCI was responsible for overall site/civil design, landscape design, water lines, sanitary sewer, general utility coordination, site/civil permitting, and erosion and sediment control.



The View II at the Park

Morgantown, WV

KCI provided civil engineering services for the View II. The View II is the second phase of a three phased development along the waterfront in Morgantown, West Virginia. The View II is a 4-story structure that houses Morgantown Area Chamber of Commerce on the first floor, with residential condominiums on the upper floors. KCI was responsible for overall site design, utility lines, sidewalks, drainage, stormwater retention, grading plans, erosion and sedimentation control plans, and the site/civil permitting.



Morgantown Event Center

Morgantown, WV

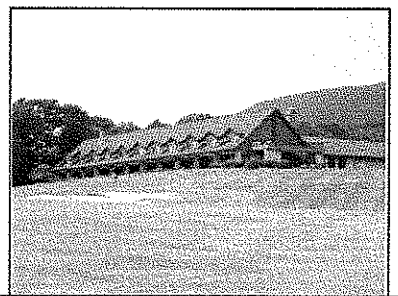
KCI provided civil engineering services for the new Morgantown Event Center and Parking Garage, located in the Wharf District of Morgantown, West Virginia. KCI is providing site/civil engineering and landscape architecture services for this design/build project.



USDA Building

Sabraton, WV

KCI was a subconsultant to Paradigm Architecture for the USDA Building located in the Sabraton Area of Morgantown. KCI provided site/civil engineering and landscape architecture design services for this design/build project. This project has received LEED Silver certification.



Cacapon Resort State Park Golf Course Improvements

Cacapon, WV

KCI provided full-service engineering services for the Cacapon Resort State Park Improvement Projects. KCI provided engineering services for the golf course improvement to be commensurate with a Robert Trent Jones style course. KCI is also providing design services to upgrade the park's waste water collection system, and improve the potable water distribution throughout the park. KCI will also be providing site/civil engineering and landscape architecture services to accommodate the addition to the resort that is currently under design.

Cacapon Resort State Park Lodge

Berkeley Springs, WV

Client

WV DNR Division of Parks
and Recreation

Contact

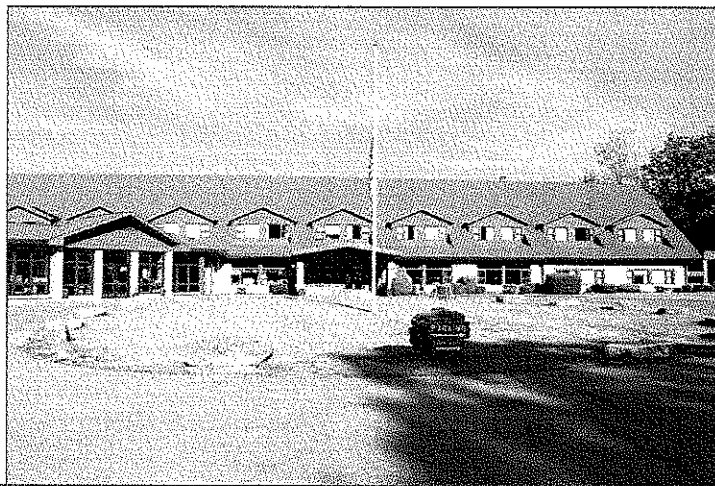
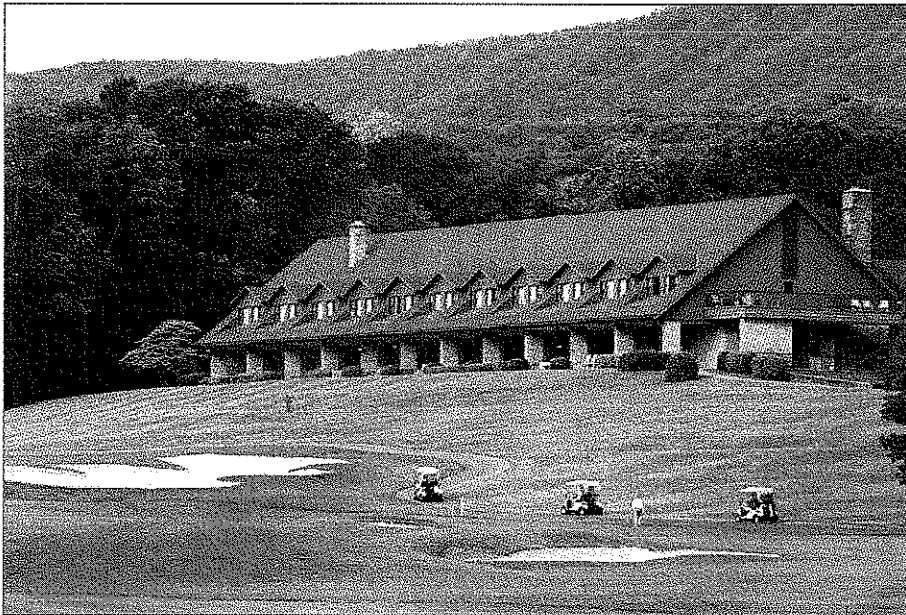
Jonathan Perry,
(304) 284-5015
Paradigm Architecture

Year Complete: In Progress

KCI is a subconsultant to Paradigm Architecture for the Cacapon Resort State Park Improvement Projects. This project involves engineering services for the golf course. The improvements are to be commensurate with a Robert Trent Jones style course.

KCI is providing design services to upgrade the parks waste water collection system, and improve the potable water distribution throughout the park. Specifically, KCI performed water supply, treatment, and distribution studies and made recommendations for system improvements. The water supply study included field evaluation and documentation survey of water wells and using conclusions to plan water treatment plant upgrade, improvements to existing wells, and possible new wells. Water distribution system studies included domestic demand and pressure measurements and hydrant flow testing for fire flow and carrying capacity evaluation.

KCI will also provide site/civil engineering and landscape architecture services to accommodate the addition to the resort that is currently being designed by Paradigm Architecture.



Civil Engineering/Landscape Architecture Open-End

Baltimore County, MD

Client

Baltimore County Department
of Parks and Recreation

Contact

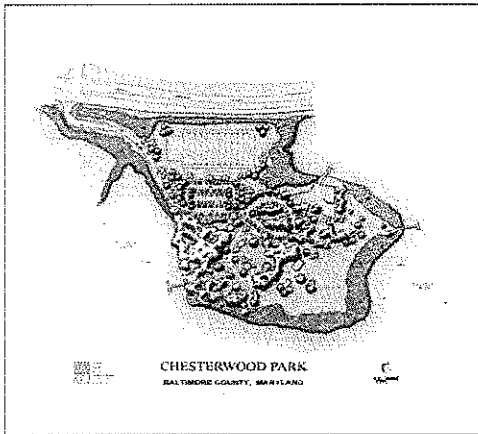
Jeanette Tansey,
(410) 887-3824

Year Complete: 2010

KCI was awarded a second consecutive four-year contract to provide on-call landscape architectural and civil engineering services to the Baltimore County Department of Recreation and Parks. KCI's full service capabilities were supporting the landscape architectural / civil engineering team, providing services including surveys, environmental studies, and stormwater management. Tasks include:

Chesterwood Park.

KCI provided landscape architecture and engineering services to the Baltimore County Department of Recreation and Parks as construction documents are developed to revitalize and expand an existing 20 acre County-owned Park in Dundalk. Formerly a County maintenance facility, Chesterwood Park was established for passive recreation, including picnicking and fishing, on one of the few remaining sites available for open space development in the region. Park development included the rehabilitation of existing pavilions and trails, expansion of the recreational activities to include an athletic field, parking lot, restroom and concession buildings, and the addition of a second fishing pier for greater pedestrian access to the Bullneck Creek. Other improvements included a new water system, a boat ramp for County and State use in removing derelict boats, new lighting for the parking lot and athletic field, and additional landscaping.



Relatively flat topography and its close proximity to the Creek has resulted in the majority of the site being located within the 100-year floodplain and a significant portion of the park also falls within the Chesapeake Bay Critical Area. Although most of the improvements were constructed on the upland portions of the park, the trails leading to the new and existing fishing piers and the boat ramp were built within the Critical Area. Therefore, a key component of the project involved KCI's environmental scientists as they applied for a joint permit application with the Army Corp of Engineers and the Maryland Department of the Environment.

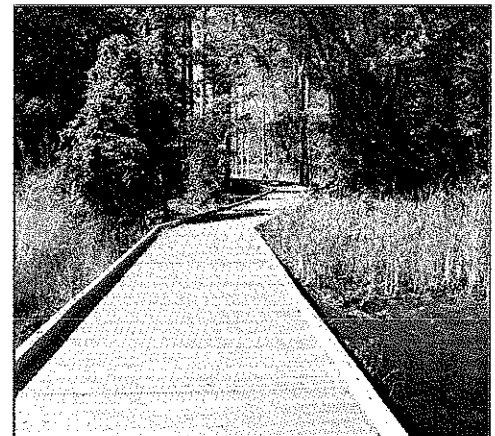
KCI developed construction drawings based on a layout the County had previously approved with minor design modifications, engineer's cost estimate, and technical specifications. KCI was responsible for preparing sediment and erosion control drawings for soil conservation district approval as well as obtaining approvals for the grading permit, BGE coordination, and environmental permits.

Dundee / Saltpeter Creeks Park

Dundee / Saltpeter Creeks Park is an existing 530 acre park at the headwaters of Dundee Creek and Saltpeter Creek. Phase I construction of the park included park access, a bus and automobile parking area, a nature center, and trails through the forested areas to the waters of the creeks. KCI reviewed previously approved plans and Joint Permit Application (JPA), revised the plans as necessary to comply with current standards and regulations, and prepared a new JPA for a Phase II expansion of the Park.

Survey Services

KCI provided topographic surveying services for multiple parks throughout the Baltimore County Parks System. In addition to surveys completed for specific tasks mentioned above, KCI provided civil engineering services for the design of a new sanitary sewer connection from the Lurman Woodland Theater Restroom Facility, on the Catonsville High School campus, to the existing public sanitary sewer line along Valley Road. The design also provided for a limited amount of disturbance, allowing for unnecessary submittals to Baltimore County SCD to be avoided. This time saving measure will allow the county to meet construction deadlines for the project.



Lurman Woodland Theater

KCI provided civil engineering services for the design of a new sanitary sewer connection from the Lurman Woodland Theater Restroom Facility, on the Catonsville High School campus, to the existing public sanitary sewer line along Valley Road. The sanitary

KCI Technologies, Inc.

sewer line was designed to replace the singular on-site treatment facility that had served the restroom, but had recently been badly damaged. KCI's surveying staff also provided topographic survey to supplement the aerial topography provided by Baltimore County Recreation and Parks. The sanitary sewer design consisted of 1,209± feet of 8 inch PVC pipe. The line required eight new manholes due to undulating terrain and existing trees and facilities on site that BCRP requested be avoided. Even with the challenging conditions of the terrain, KCI was able to provide a cost effective design that included neither extended depth manholes nor ductile iron pipe. The design also provided for a limited amount of disturbance, allowing for unnecessary submittals to Baltimore County SCD to be avoided. This time saving measure will allow the county to meet construction deadlines for the project.

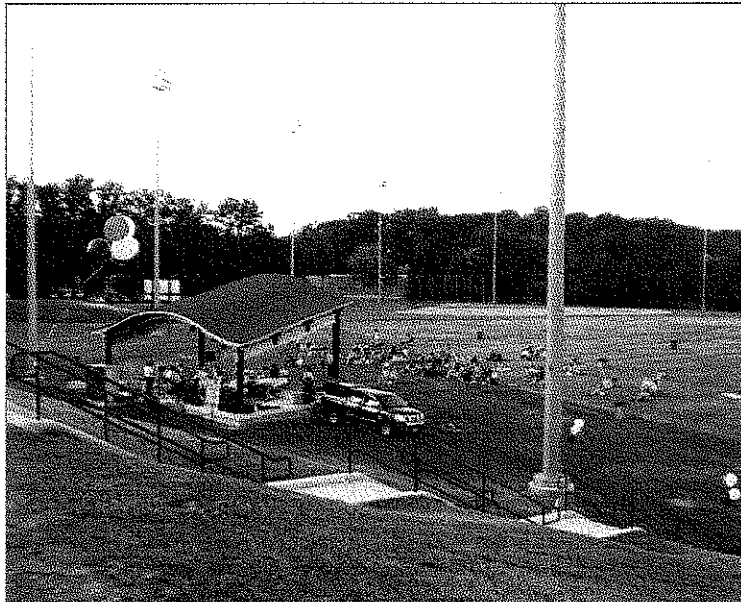
Hannah Moore Park

KCI provided site/civil, structural, and mechanical, electrical, and plumbing engineering, cost estimating, and surveying services for the development of construction documents for improvements to the Hannah Moore Park. The existing 55± acre park experienced increased use in recent years and was in need of several upgrades to better serve its patrons.

KCI's engineers provided design for a new 20 foot by 40 foot pavilion and performance stage. Our engineers provided structural layout, grading, storm drain layout, erosion and sediment control, lighting, and electrical design for the pavilion.

KCI provided design for the re-grading of three existing ball fields and a swale adjacent to the field to provide better drainage and erosion protection for the fields. Irrigation design was also provided for the existing athletic field.

Additional park upgrades included the design of handicap access from parking lots to the ball fields and steps from the concession building to the ball fields. KCI also provided bid and construction phase services including responding to RFIs, shop drawing review, and creating punch lists.



SPECTRUM POLICY DECLARATIONS (Continued)

POLICY NUMBER: 40 SBA IR8720

BUSINESS LIABILITY	LIMITS OF INSURANCE
LIABILITY AND MEDICAL EXPENSES	\$1,000,000 ✓
MEDICAL EXPENSES - ANY ONE PERSON	\$ 10,000
PERSONAL AND ADVERTISING INJURY	\$1,000,000
DAMAGES TO PREMISES RENTED TO YOU ANY ONE PREMISES	\$1,000,000
AGGREGATE LIMITS	
PRODUCTS-COMPLETED OPERATIONS	\$2,000,000
GENERAL AGGREGATE	\$2,000,000 ✓
EMPLOYMENT PRACTICES LIABILITY COVERAGE: FORM SS 09 01	
EACH CLAIM LIMIT	\$ 500,000
DEDUCTIBLE - EACH CLAIM LIMIT \$5,000	
AGGREGATE LIMIT	\$ 500,000
RETROACTIVE DATE: 04232010	

This Employment Practices Liability Coverage contains claims made coverage. Except as may be otherwise provided herein, specified coverages of this insurance are limited generally to liability for injuries for which claims are first made against the insured while the insurance is in force. Please read and review the insurance carefully and discuss the coverage with your Hartford Agent or Broker.

The Limits of Insurance stated in this Declarations will be reduced, and may be completely exhausted, by the payment of "defense expense" and, in such event, The Company will not be obligated to pay any further "defense expense" or sums which the insured is or may become legally obligated to pay as "damages".

BUSINESS LIABILITY OPTIONAL COVERAGES

EMPLOYEE BENEFITS LIABILITY

COVERAGE: FORM SS 40 50

EACH CLAIM	\$1,000,000
AGGREGATE	\$2,000,000

06332

*1100240IR87200101



AUTOMOBILE SUMMARY

POLICY INFORMATION

NAMED INSURED: MILLER ENGINEERING, INC.
 PRODUCER CODE AND NAME: 521962 HENDERSON BROTHERS INC/PHS
 COMPANY CODE AND NAME: A SENTINEL INSURANCE COMPANY, LIMITED
 EFFECTIVE DATE: 07/08/10 EXPIRATION DATE: 07/08/11
 EXAMINATION PERIOD:

POLICY COVERAGES RECAP

COVERAGE	COVERED AUTOS	LIMITS	PREMIUM
LIABILITY	1	\$ 1,000,000 PER ACC ✓	\$ 1,598.00
NO FAULT	5	PIP	\$ 30.00
	5	ADDED PIP	
UM	2	\$ 350,000 PER ACC	\$ 88.00
UDM	2	\$ 350,000 PER ACC	\$ 151.00
OTC	7		\$ 271.00
COLLISION	7		\$ 858.00
TOWING	7		\$ 24.00
TOTAL PREMIUM			\$ 3,020.00

CAFS REPORTED: PA

02492

*1100240KT62930101



POLICY # 40UECKT6293 DW CONTROL # 001 TERM ID U0BBWLOB
 PROCESS DATE 07/01/10 OPER INITIALS JTG AAR PREV POL # NEW



**POLICY
DECLARATIONS**

AGENCY BRANCH	PREFIX	POLICY NUMBER	INSURANCE IS PROVIDED BY
056124 969	SFH	25-408-45-18	CONTINENTAL CASUALTY COMPANY 333 S WABASH AVE, CHICAGO, IL 60604, A STOCK INSURANCE COMPANY, HEREIN CALLED WE, US, OR OUR.

NOTICE

**THIS IS A CLAIMS-MADE POLICY. PLEASE READ THIS POLICY CAREFULLY AND
DISCUSS THE COVERAGE WITH YOUR INSURANCE AGENT OR BROKER.**

1. NAMED INSURED:

MILLER ENGINEERING, INC.

2. ADDRESS:

P.O. Box 42
Garards Fort, Pennsylvania 15334

3. **POLICY TERM:** From: 11/01/2009 To: 11/01/2011 AT 12:01 a.m.
Standard time at **your** address shown above.

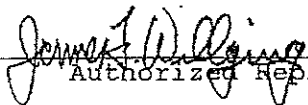
4. **KNOWLEDGE DATE:** 11/01/03

5. **DEDUCTIBLE:**

- a. \$ 1,000 Purchased Deductible
- b. \$ N/A Deductible Credit
- c. \$ 1,000 is Deductible per **claim** (including **claim expenses**)
- d. \$ N/A is Aggregate Deductible per **policy year**
(including **claim expenses**)

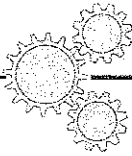
6. **LIMIT OF LIABILITY:**

- a. \$ 1,000,000 Per **claim** limit of liability (including **claim expenses**)
- b. \$ 2,000,000 Aggregate limit of liability per **policy year**
(including **claim expenses**)


Authorized Representative

Countersignature (if required)

BROKER



MILLER

Autographed with Miller

FACILITY REVIEW REPORT

New River Community and Technical College Swimming Pool

This is a report of the observations made during the preliminary structural/ facility review of the New River Community and Technical College Pool as determined by Miller Engineering, Inc. This report is based on conditions observed during a May 15, 2009 site visit by Craig Miller PE, of MEI and Tom Pritts AIA, of Alpha Associates and our working knowledge of the applicable codes and standards. The opinions rendered and recommendations made are made based on our knowledge of the requirements for public swimming pools and the information available to us at the time the report was prepared.

CODES and STANDARDS:

This report is prepared based on our understanding of the current conditions and applicable codes and standards. It should be noted that the West Virginia Department of Health has adopted ANSI / NPSI (American National Standards Institute/ National Pool and Spa Institute) standards for the design, construction, and operation of public swimming pools. The applicable pool standard is ANSI/NPSI 2003. Additionally, working knowledge, the year 2003 International Mechanical and Plumbing codes, ASHRAE Standards, and NFPA 70, 2008 - the National Electric Code have been the basis of observation for MEP and Filtration Systems.

EXISTING CONDITIONS AND OBSERVATIONS:

The scope of the review was primarily limited to the pool area, the associated locker rooms, and supporting mechanical, electrical, and plumbing (MEP) systems. The scope of a renovation would be as follows:

Pool Basin

The pool basin appeared to be in generally good repair with some tile area in need of repair. These did not seem to be anything beyond the usual "wear and tear"

Suction Outlets

The Suction outlets are not in compliance with the Virginia Graeme Baker Act requirements and will need replaced. We recommend that the existing return basin be removed and replaced with 2 VGB compliant assemblies spaced at least 4 feet apart. As part of the basin replacement, the piping between the basins and the leading into the filter room must be replaced. The replacement basin will require some effort on both the engineering and construction side to accomplish, but is by no means impossible. We have successfully performed the design and helped implement several retrofits to date.

Another option for resolving the return basin issue would be to shallow the 9 foot portion of the pool to around 5-1/2 feet. This would make it possible to add a slide or some other show water feature. This would allow new basins to be installed

above the existing floor and piped to the surge tank. Such a change would represent a programmatic shift in the use of the pool and would need to be carefully considered. One factor supporting such a change is that the existing diving well lacks the depth and shape to meet current standards for diving wells. Current standards require a minimum depth of 10 feet and a definite shape for the floor of the diving well; the pool meets neither requirement. Such a shallowing (removing the diving well) of the water is becoming a common movement in the pool industry as facilities decide to eliminate the liabilities associated with a diving boards and the visibility concerns of the deeper water. We recommend that the diving boards which were previously removed not be reinstalled. A water feature or short slide could be incorporated into the pool to replace the "excitement" of the original diving boards.

Filtration Systems and Heater

The original filtration systems and heating system have been removed and would require replacement. Fortunately, the original construction including the chase around the pool basin and the size and location of the original filter room makes access to install a new filtration system fairly straightforward. Additionally, the skimmer piping and the deck drain piping will have to be separated with the deck drains routed to sanitary. Again, due to existing conditions, such work is fairly straightforward.

Chlorination System/ Level Control

A new chlorination system and pool water level controller both need to be installed as part of the project. Typically, sodium hypochlorite is used for sanitation and muratic acid or carbon dioxide is used for ph control.

HVAC

The existing heating/ ventilating units are non functional and would be replaced as part of the project. A heating/ cooling/ dehumidification system would be installed. Again, the existing configuration of the pool, chases, etc. make this a reasonable task to accomplish. It must be stressed that a dehumidification system is required to maximize the life of the structure relative to humidity concerns. Additionally the pool area and locker rooms would require new ventilation fans and the locker rooms require some form of HVAC as part of the project. The existing residential systems serving the offices currently in the locker rooms areas are not sufficient to the task and would be replaced.

Electric

Some electric changes would be required to meet newer codes and standards. Additionally, the lighting needs to be reviewed in terms of the condition of the fixtures and the lighting levels resulting from the existing. As a minimum the existing fixtures would likely need replaced.

Tile

Generally the tile on the walls, floor, and within the pool appeared to be in good condition excluding a few damaged areas. These areas can be repaired as necessary and new tile installed to match the existing.

Railings

The existing railings along the bleacher area and stairwells do not meet current fall protection requirements. These railings should be replaced.

Bleacher structure

Two beams under the bleacher area were cut out. It is highly likely that these beams are required structurally and will need to be replaced. The beams should be replaced regardless of whether or not the larger pool renovation is initiated.

Web joists

Rust areas were observed on the roof steel web joists spanning over the pool. It is likely that this is simply surface rust not affecting the strength of the joists. The rust will need to be removed and new paint installed to protect this steel.

Life Safety

It was noted that the sprinkler system and fire alarm systems were not operational during the investigation. Upgrades to these systems will be required to meet current code.

Cracking

A large crack was observed within the women's locker room area. No cracks were observed from the exterior of the building. Further investigation is necessary to determine how this crack has formed and what is necessary to repair it.

Bleacher area

Since the space will not be used for spectator swimming, it is recommended to develop this space into groupings for relaxation and gathering. Fixed tables and sections of bleacher can be provided for non-swimmers.

Locker room renovation

It appears that the locker room areas can readily be converted back into locker rooms. Work should include removal of finishes and restoring plumbing fixtures, ceilings, and flooring as necessary for usable locker rooms.

Pool

As noted in this report, the main drain of the pool needs to be replaced to meet current code. If this pool is not intended to be used for competitions after the renovation, it is recommended to shallow the pool floor to eliminate the need to excavate under the pool for the new main drain. A shallower pool will allow increased swimmer capacity of the pool. With a major renovation, it is prudent to

install an ADA access ramp into the pool. A stair into the pool should be provided to allow children and elderly safe access to the pool. A concrete curb on the deep end of the pool should be removed to eliminate a tripping hazard. As part of the addition of an ADA ramp, it would be worth considering also shortening the pool from the 25 yard length approximately 6 - 8 feet to give more deck area on the shallow end of the pool. This concept, coupled with shallowing the diving area to 5-1/2' would increase the effective swimmer area and make the pool deck more amenable to multiple uses and family recreation.

Finishes

Work should include cleaning of floors, walls, and equipment. In addition, walls should receive a coat of paint for an updated look.

Overall Building – Fire Alarm

At the time of the site visit, the fire alarm was showing system trouble and appeared to have been doing so for some time. In order to achieve occupancy, the fire alarm would need to be repaired and likely some devices added to meet current NFPA standards. Such a repair/ upgrade would likely have to be performed to the entire facility

Overall Building – Fire Suppression/ Sprinkler

At the time of the site visit, the fire suppression system appeared to be dry and no water pressure was observed. The system will be required to be repaired and returned to service prior to occupancy.

Hazardous Materials / Asbestos Containing Material (ACM)

The age of the building makes it possible that Hazardous Materials or ACM could have been used in the construction. This report does not evaluate the existence of or address costs for removal of any ACM. An ACM survey and report will need to be performed prior to the start of any design on this project.

SUMMARY:

In summary, we believe the pool can be restored to service but removed systems will have to be replaced and some actions will be required for the pool to meet current standards. Programmatic reviews of the pools use needs to be performed prior to the start of any design to verify the assumptions forming the basis of this evaluation.

PROJECT COST

Based on the observed conditions and as indicated in the above survey report, we believe that a cost for the project would be on the order of \$740,000. This is based on our best understanding of the conditions and the codes and standards that would have to be applied to return the pool and its associated locker rooms and mechanical systems to service. In the budget figures it is assumed that no hazardous materials are present in the facility. An environmental study should be completed before work progresses to

determine if additional cost will be incurred. It is also assumed that the Department of Highways group will be removing their temporary partitions, structures, and equipment when they vacate the facility.

There are several programmatic decisions such as shallowing the pool, adding water features, and renovating the bleacher space that could affect this number either positively or negatively. We believe that the existing facility could be revived as an effective community asset for the above cost.

New River Community & Technical College
 Pool Renovation - Budgetary Estimate - 20 May 09

Pool Mech		\$	123,000
Fire Alarm / Sprinkler		\$	25,000
Pool HVAC / Locker Exhaust		\$	95,000
Pool Arch / Structural		\$	68,375
ADA Ramp/ Stairs		\$	26,000
New Floor / Shallow pool		\$	60,000
Arch Restore Locker Room		\$	50,000
Pool Accessories (ladders, etc)		\$	17,000
Construction Sub Total		\$	464,375

General Conditions	7%	\$	32,506
GC Profit	5%	\$	23,219
GC Overhead	10%	\$	46,438
Subtotal GC Cost to Owner		\$	566,538

Contingency	20%	\$	113,308
A/E Fee	10%	\$	56,654
Total Project Budgetary Estimate		\$	736,499

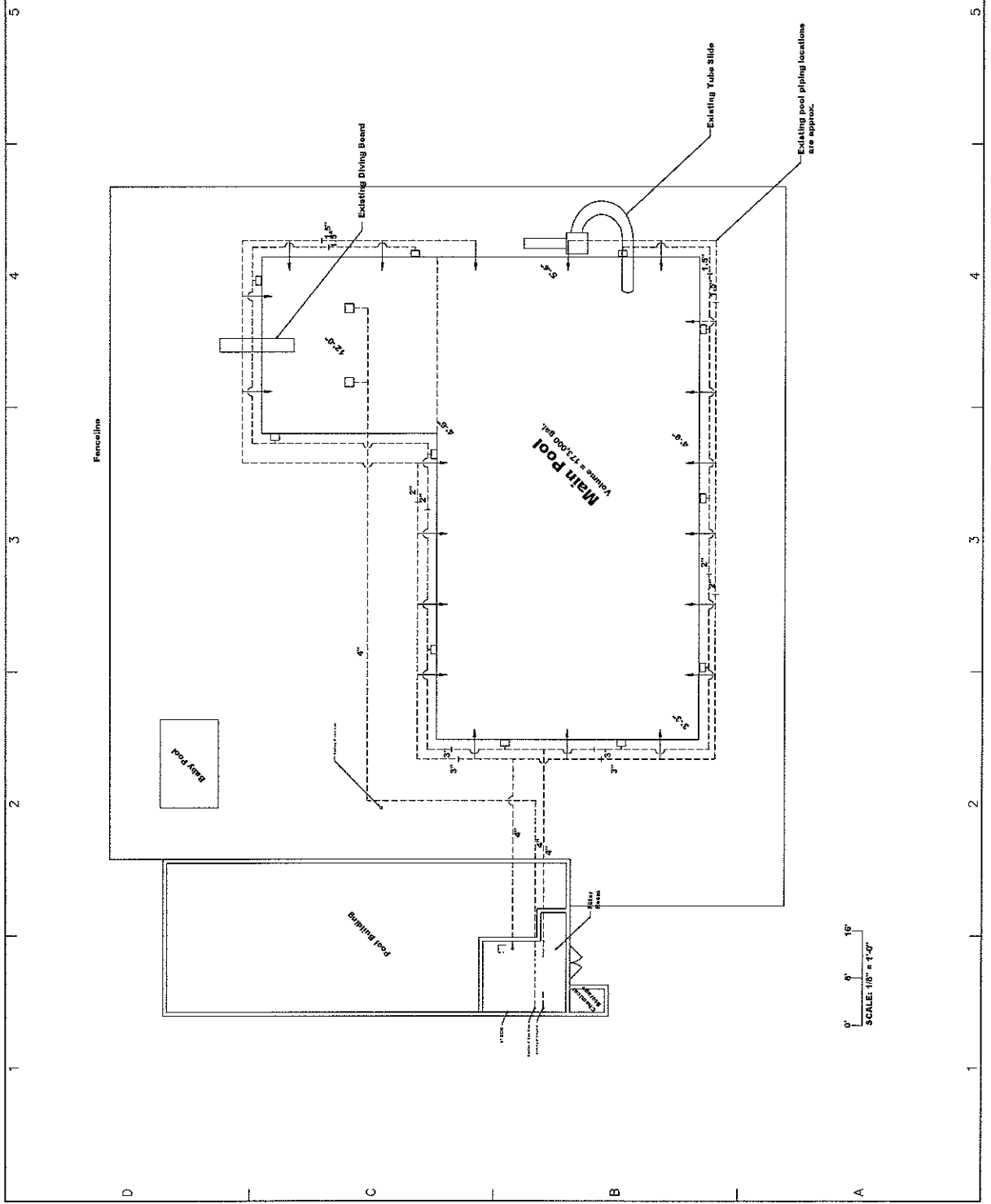
Prepared by Miller Engineering and Alpha Associates 20 May 2009

Miller Engineering Inc.
 Professional Design Services
 20440 20th Ave
 Grand Rapids, MI 49508
 (616) 233-1100
 www.millereng.com

PROPERTY
 GRAFTON CITY POOL
 FILTER REPLACEMENT/ WADING POOL
 REPAIRS
 CITY PARK
 GRAFTON, WI

PROJECT NO.	ML 180703
DATE	02/15/2018
DESIGNER	MLD
CHECKED BY	MLD
DATE	02/15/2018
PROJECT NO.	ML 180703
DATE	02/15/2018
DESIGNER	MLD
CHECKED BY	MLD
DATE	02/15/2018

EXISTING POOL LAYOUT
 SHEET NO. **SP-1.0**

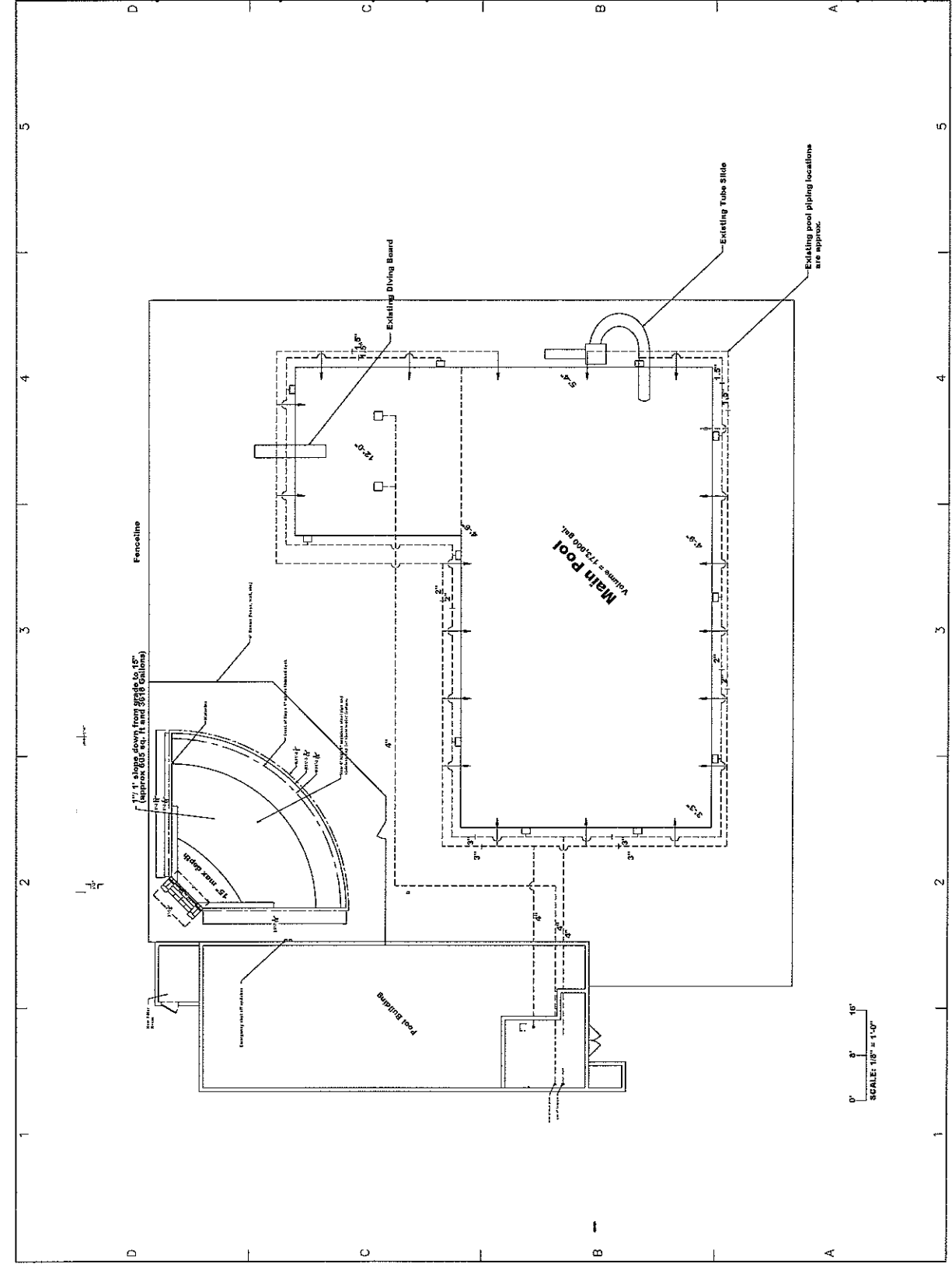


0' 1" 1/8"
 SCALE: 1/8" = 1'-0"

PROJECT NO.	18-0001
DATE	08/14/2018
DESIGNER	J. MILLER
CHECKED	J. MILLER
DATE	08/14/2018
PROJECT	GRANTON CITY POOL FILTER REPLACEMENT/ WADING POOL REPAIRS
CLIENT	CITY OF GRANTON
DATE	08/14/2018
PROJECT	GRANTON CITY POOL FILTER REPLACEMENT/ WADING POOL REPAIRS
CLIENT	CITY OF GRANTON
DATE	08/14/2018

**REVISED POOL
 LAYOUT**

SP-1.2



1 2 3 4 5

1 2 3 4 5

Fence/line

1 1/2" x 1/2" aluminum framing (approx 30' x 16' x 18")
 (approx 2675 sq. ft and 30,518 Gallons)

Existing Pool, 12' x 18'

1/2" x 1/2" x 1/2" aluminum framing

1/2" x 1/2" x 1/2" aluminum framing

1/2" x 1/2" x 1/2" aluminum framing

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1/2" x 1/2" x 1/2" aluminum framing

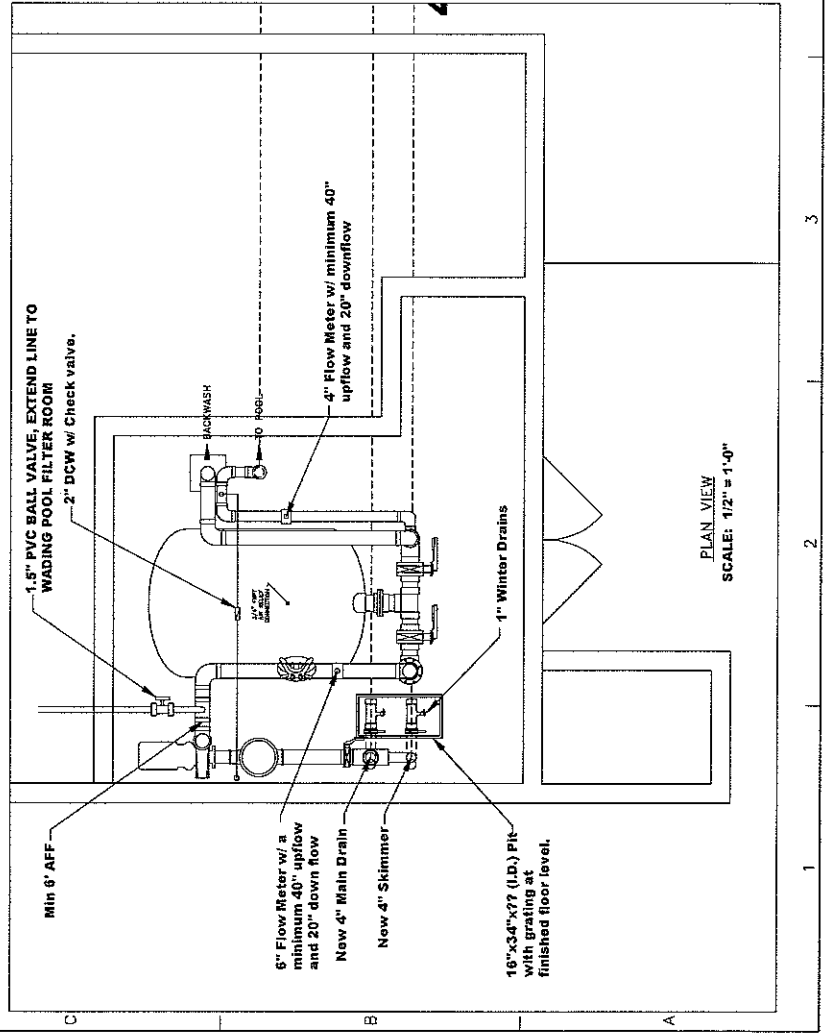
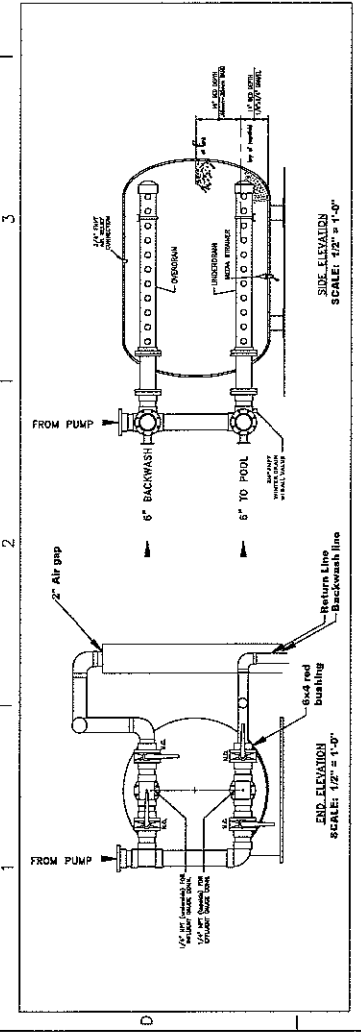
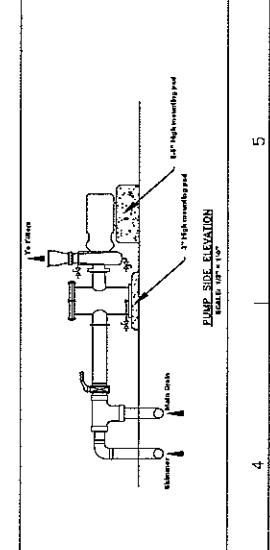
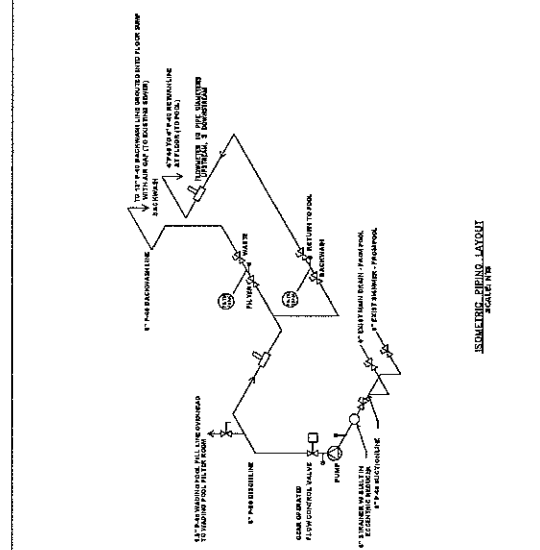
0' 8' 16'
 SCALE: 1/8" = 1'-0"

PROJECT NO.	180-00007
DATE	08/14/2018
DATE PLOTTED	08/14/2018 10:58:11 AM
DATE REVISED	
DESIGNER	ML
CHECKER	ML
DATE	08/14/2018
PROJECT TITLE	GRAFTON CITY POOL FILTER REPLACEMENT/ WADING POOL REPAIRS
CLIENT	CITY OF GRAFTON, WI
PROJECT FILE	

**MAIN FILTER
 ROOM & DETAILS**
 SHEET NO. **SP-1.3**

PIPING NOTES:

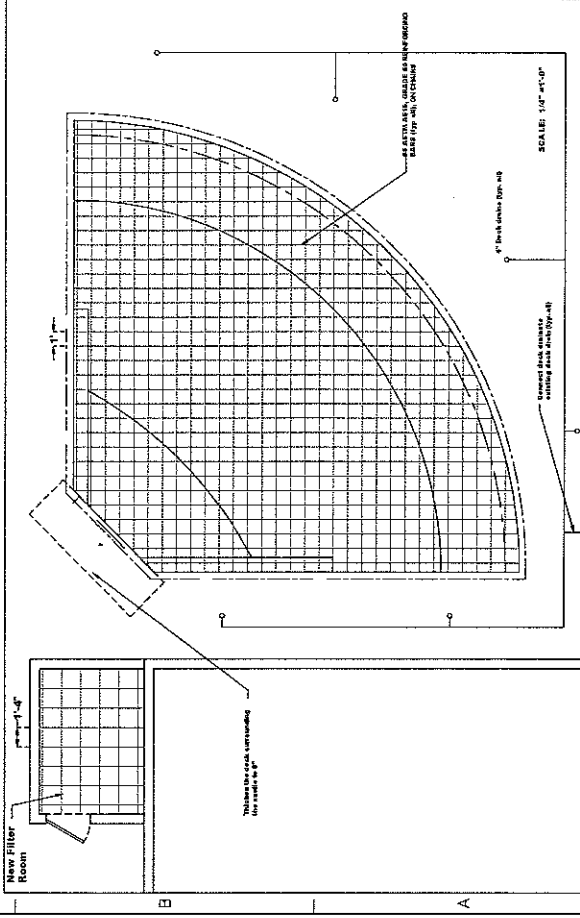
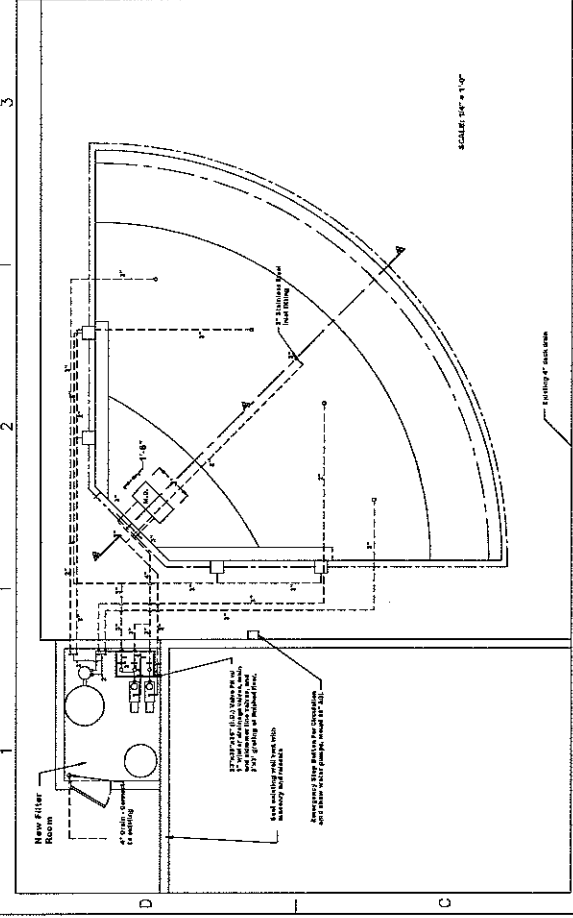
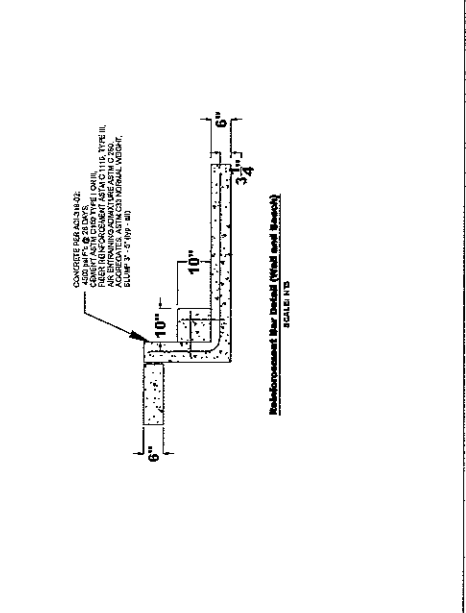
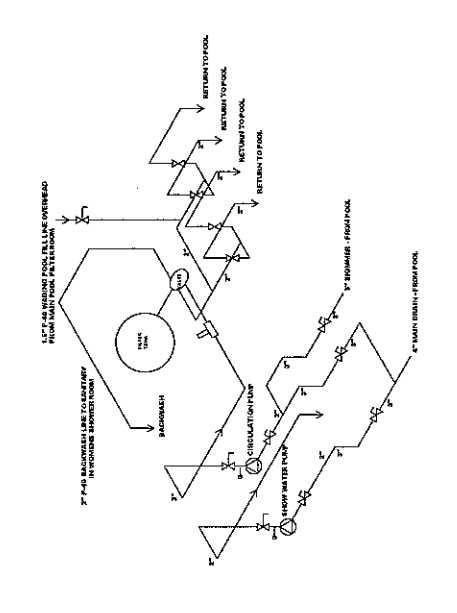
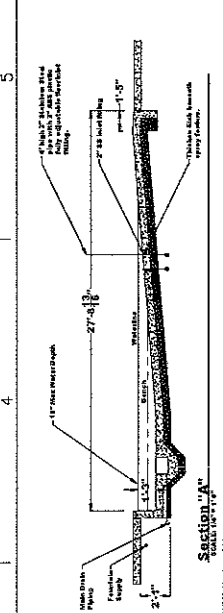
- All PVC piping shall utilize 90° fittings & valves with heavy listed gaskets.
- PVC threaded pipe shall be used for all connections.
- All pipe shall be supported by hangers or brackets with 3/8" x 3" L x 1/2" flat bar.
- All pipe shall be supported by hangers or brackets with 3/8" x 3" L x 1/2" flat bar.
- All valves on PVC shall be 2" and below shall be ball type 3/4" BSP.
- All valves on PVC shall be 2" and below shall be ball type 3/4" BSP.
- Water drains shall be brass or copper ball valves. Valves will be filling side.
- Flow direction shall be indicated on all flow lines.



DATE: 08/11/2011	PROJECT NO: 11010001
DATE PLOT FILE: 08/11/2011	DATE OF WORK: 08/11/2011
DRAWN BY: J. BUCHER	CHECKED BY: J. BUCHER
DATE OF REVISION: 08/11/2011	PROJECT: WADING POOL REPAIRS
SCALE: 1/4" = 1'-0"	SCALE: 1/4" = 1'-0"

**WADING FILTER
 ROOM & DETAILS**

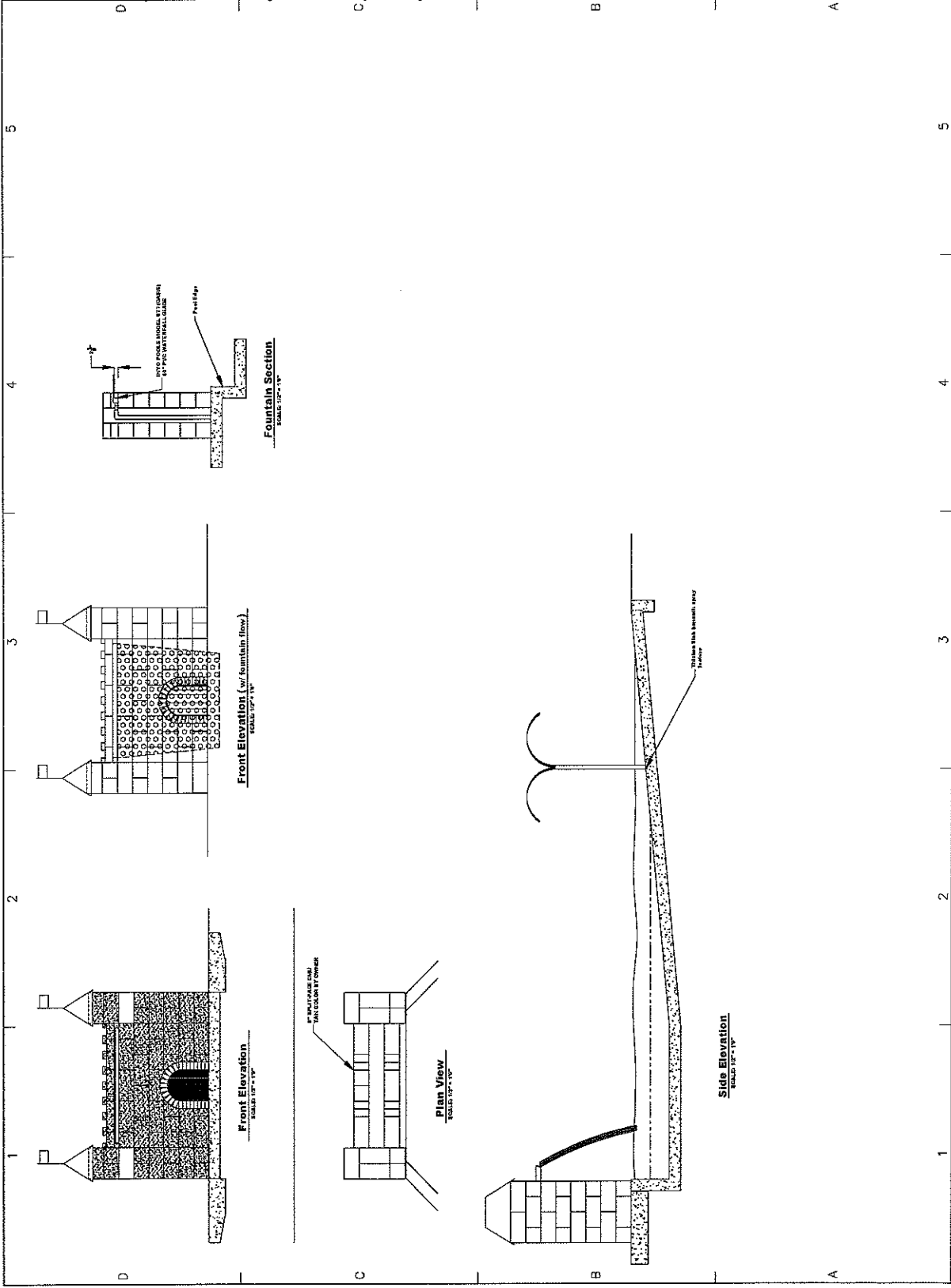
SP-1.4



Miller Engineering Inc.
 Professional Design Service
 420 Lynde Park Road
 Cranston, RI 02909
 Telephone: (401) 942-1100
 Fax: (401) 942-1101

CRANTON CITY POOL
 FILTER REPLACEMENT/ WADING POOL
 REPAIRS
 CRANTON, RI

**WATERFALL &
 SPRAY FEATURE**
SP-1.6



1 2 3 4 5

Miller Engineering Inc.
 PEPPER
 Professional Design Services
 22 Laurel Ave. West
 Grafton, WI 53024
 262-594-0555
 262-594-0556

DATE: 08/15/2007

PROJECT NAME: GRAYTON CITY POOL FILTER REPLACEMENT/WADING POOL REPAIRS

CITY: GRAYTON, WI

PROJECT NO.: 07-001

DATE: 08/15/2007

DESIGNED BY: J. MILLER

CHECKED BY: J. MILLER

SCALE: AS SHOWN

PROJECT NO.: 07-001

DATE: 08/15/2007

DESIGNED BY: J. MILLER

CHECKED BY: J. MILLER

SCALE: AS SHOWN

PROJECT NO.: 07-001

DATE: 08/15/2007

DESIGNED BY: J. MILLER

CHECKED BY: J. MILLER

SCALE: AS SHOWN

PROJECT NO.: 07-001

DATE: 08/15/2007

DESIGNED BY: J. MILLER

CHECKED BY: J. MILLER

SCALE: AS SHOWN

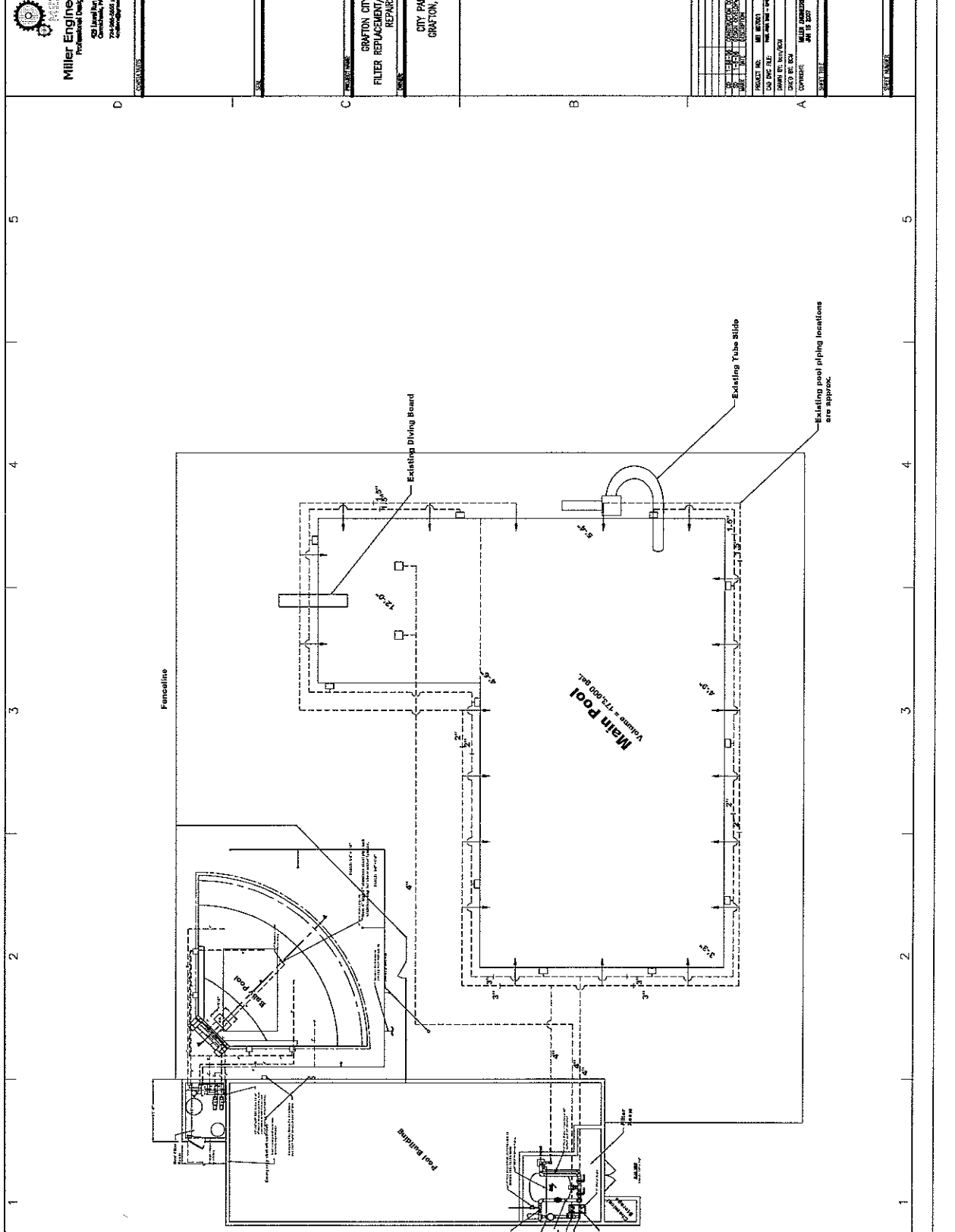
PROJECT NO.: 07-001

DATE: 08/15/2007

DESIGNED BY: J. MILLER

1 2 3 4 5

A B C D



1 2 3 4 5

A B C D